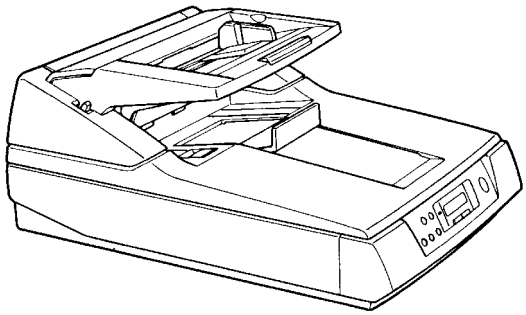
ORDER NO. KM70104624C0
G14

Service Manual

High Speed Scanner

KV-S6055W / KV-S6055WU / KV-S6050W / KV-S6050WU



⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public.
It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

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1. GENERAL PRECAUTIONS

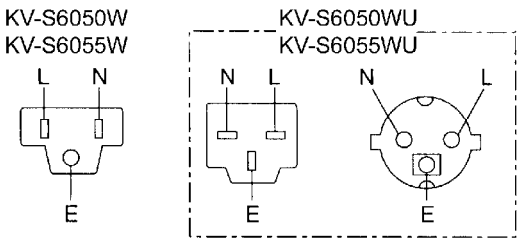
1.1. Safety Precautions

1. Before servicing, unplug the power cord to prevent electrical shock hazard.
2. When replacing parts, use only manufacturer's recommended components for safety.
3. Check the condition of power cord. Replace if wear or if damage is evident.
4. After servicing, be sure to restore the lead dress, insulation barriers, insulation papers, shields, etc.

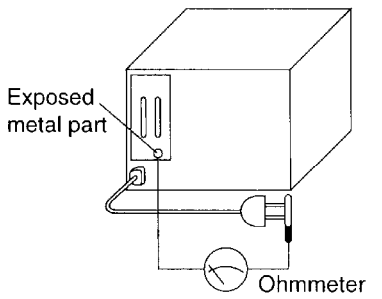
5. Before returning the serviced equipment to the customer, perform the following electrical tests to prevent a shock hazard.

1.2. Electrical Tests

1. Unplug the power cord and check for continuity between the earth ground connection on the plug and the metal cabinet. There should be zero ohm resistance found.
2. With the unit unplugged, short the AC Live-Neutral of the plug with a jumper wire.
3. Turn ON the power switch.
4. Measure the resistance value with an ohmmeter between the jumpered AC plug and each exposed metal cabinet part, such as screwheads, etc.
   Note:
   Some exposed parts may be isolated from the chassis by design. They read infinity.
5. If the measurement is less than 1 M Ω , a possibility for electric shock may exit.
   Note:
   This hazardous condition must be corrected before the unit is returned to the end user.



L: Live, N: Neutral E: Earth ground



Resistance > Approx. 1MΩ

1.3. For Service Technicians

ICs and LSIs are vulnerable to static electricity.
When repairing, the following precautions will help to prevent recurring malfunctions.

1. Cover the plastic parts with aluminum foil.
2. Ground the soldering irons.
3. Use a conductive mat on the worktable.

4. Do not grasp IC or LSI pins with bare fingers.

2. SPECIFICATIONS

Item			Model No.	
			KV-S6050W KV-S6050WU	KV-S6055W KV-S6055WU
Scanner	Scanning face		Simplex scanning	Duplex scanning
	Scanning method		ADF front side/Flatbed : CCD image sensor	ADF front side/Flatbed : CC image sensor ADF back side : CIS (Contact Type Image Sensc
	Readout speed	Flatbed	1.5 sec (1 paper, letter size, 200 dpi)	
		ADF	Simplex scanning : Approx. 55 ppm. (Letter, fed lengthwise, 200 dpi) Duplex scanning : Approx. 82 ipm. (KV-S6055W(U) only) (Letter, fed lengthwise, 200 dpi)	
	Resolution	Flatbed/ ADF	Main scanning direction : 100~600 dpi (1 dpi step) Sub-scanning direction : 100~600 dpi (1 dpi step) Optical resolution is 400 dpi.	
	Tonal gradation		Binary mode, Grayscale mode (4/8 bit), 64-step gradation, (dit mode, 64-step gradation (error diffusion) mode	
	Image control		Image emphasis, Dynamic threshold (DIMM required), Automa threshold, Automatic separation, Monochrome reversing, Automatic back control	
	Paper	Size for Flatbed	~298x432mm (11.7x17 in.)	
		Size for ADF	Scanning size 70x169mm (2.8x6.7 in.), and 106x148mm (4.2x5.8 in.) to 298x432mm (11.7x17 in.) Feeding size 70x169mm (2.8x6.7 in.), and 106x148mm (4.2x5.8 in.) to 305x432mm (12x17 in.)	
		Thickness for ADF	Single paper feeding : 0.05 to 0.15mm (2.0 to 5.9 mils) Continuous paper feeding : 0.06 to 0.15mm (2.4 to 5.9 mils) Note : 1 mil=1/1000 in.	
		Weight for ADF	Single paper feeding : 40 to 127g/m^2 (10.6 to 34 lbs.) Continuous paper feeding : 50 to 127g/m^2 (13 to 34 lbs.)	
	Interface (Transfer rate)		SCSI 3 (20MB/sec)	
	Hopper capacity		200 sheets [64g/m^2 (17 lbs.) un used paper]	

Item			Model No.	
			KV-S6050W KV-S6050WU	KV-S6055W KV-S6055WU
Unit	External dimensions (WidthxDepthxHeight)		464x717x296mm (18.3x28.2x11.7 in.)	
	Mass (Weight)		30kg (66 lbs.)	
	Power requirement		AC100-120V, 50/60Hz (KV-S6050W/S6055W) AC220-240V, 50/60Hz (KV-S6050WU/S6055WU)	
	Power consumption	Maximum (Scanning)	1.8A (KV-S6050W/S6055W)/135W 1.0A (KV-S6050WU/S6055WU)/135W	
		Minimum (Standby)	0.5A (KV-S6050W/S6055W)/35W 0.3A (KV-S6050WU/S6055WU)/35W	
		Sleep mode	0.13A (KV-S6050W/S6055W)/11W 0.07A (KV-S6050WU/S6055WU)/11W	
Operating Environment	Operating temperature and humidity		15°C to 30°C (59°F to 86°F), 30% to 80% RH	
Storage Environment	Storage temperature and humidity		0°C to 35°C (32°F to 95°F), 10% to 80% RH	
Option	Roller exchange kit (KV-SS044), Imprinter unit (KV-SS010), Red lamp option (KV-SS04 Roller cleaning paper (KV-SS03), Ink cartridge (KV-SS06), White roller & Cover (KV-SS			

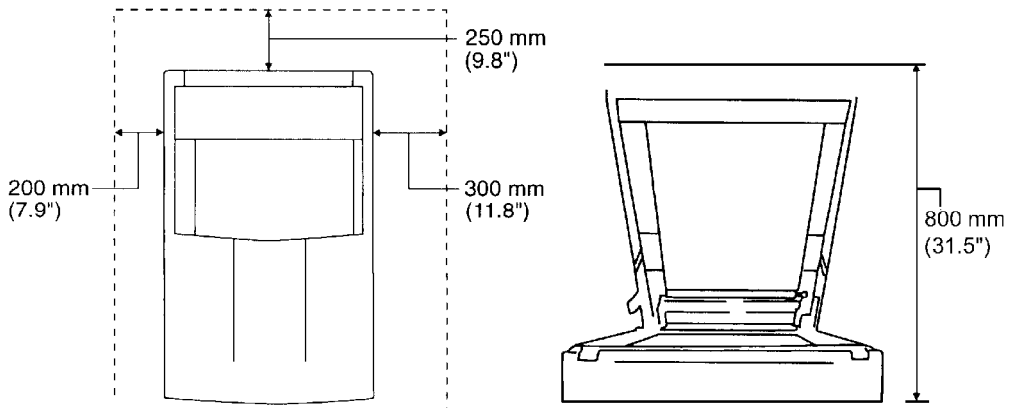
- "Weight in pounds" of paper represents the weight of 500 [432x559mm (17x22 inches)] sheets.
- "The red lamp option (KV-SS045) must be installed by a trained service engineer.

3. COMPONENT IDENTIFICATION

4. INSTALLATION

4.1. Minimum Space Requirements

Be sure to maintain the recommended space requirements for proper ventilation.



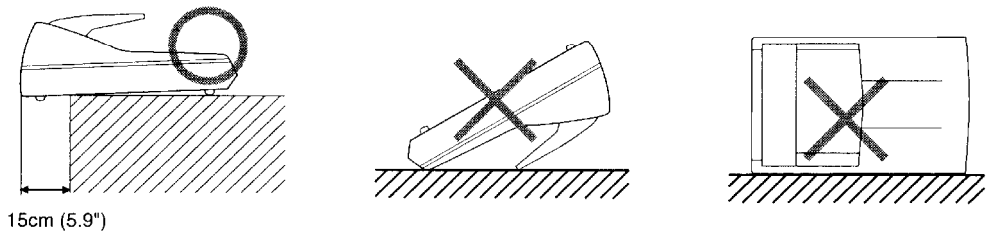
4.2. Removing and keeping Metal Clamp

In order to ensure the scanner's safety while it is being transported, its optical unit is secured by a metal clamp. Once the scanner has been put in the place where it is to be installed, change the position of the metal clamp by following the steps outlined below.

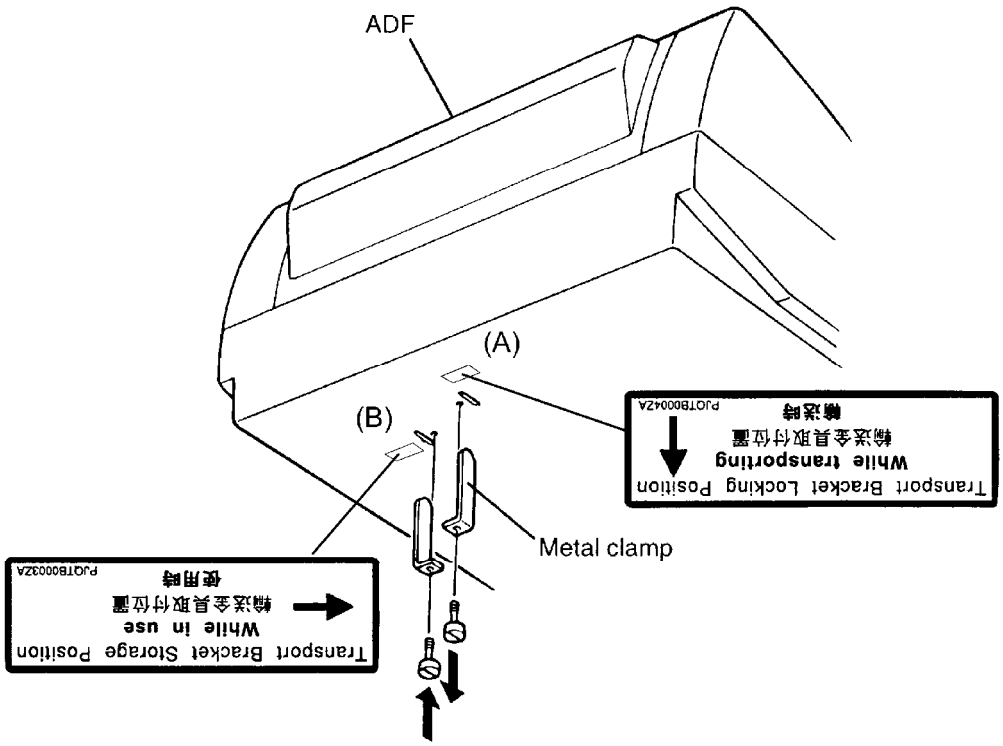
(1) Place the scanner is such a way that its left area protrudes by about 15cm (5.9") from the

edge of a table.

- Do not turn it upside down or stand it on its side.
- When placing the scanner on a table, be careful not to extend beyond the edge 15cm (5.9”). Otherwise, the scanner may fall.



(2) Remove the metal clamp on the bottom of the scanner from position (A) and attach it at position (B) instead.



4.3. DIMM Module Extension

A maximum of 256 MB extended memory may be required depending on the combination of the paper size, resolution and gray scale mode.
(For example, to scan a two-sided A4 size document with 600 dpi, gray, etc.)
To determine how much extended memory is required, refer to the section 4.6.1 “Additional Memory Size each scanning mode (MB)”.
* Recommended DIMM

- JEDEC-standard 168pin, dual in-line memory module (DIMM)
- Non buffered
- Single +3.3V±0.3V power supply
- Frequency/ CAS Latency : 100MHz/CL=2, 133MHz/CL=2, 133MHz/CL

=3

- 64MB, 128MB or 256MB may be used.

(Reference) DIMM module which has been evaluated using this scanner

- Manufacturer: DELKIN DEVICES
  1. Model No.: DM168-064Y3Q488-10S2P (64MB)
  2. Model No.: DM168-064Y3Q446-10S2P (64MB)
  3. Model No.: DM168-128Y3Q488-10S4P (128MB)

Note:

Originally, SCSI board has 16MB memory except for the above additional memory.

4.4. Removing SCSI Board

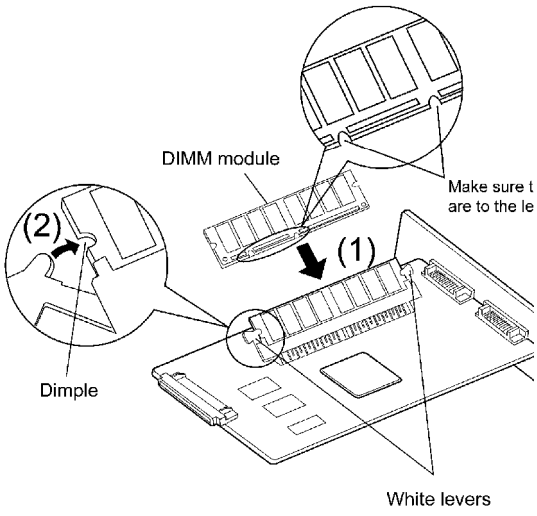
1) Make sure the Power is OFF.
2) Remove SCSI Board. (See 8.4.2.)

4.5. Installing DIMM Module

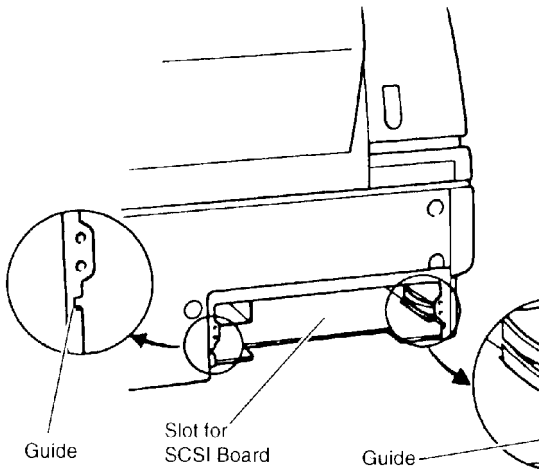
Insert the DIMM module into the connector on the SCSI interface board at an angle [Place (1)]. Push in the module as far as it goes. The levers should lock automatically. If not, push the levers to lock the module in [Place (2)].

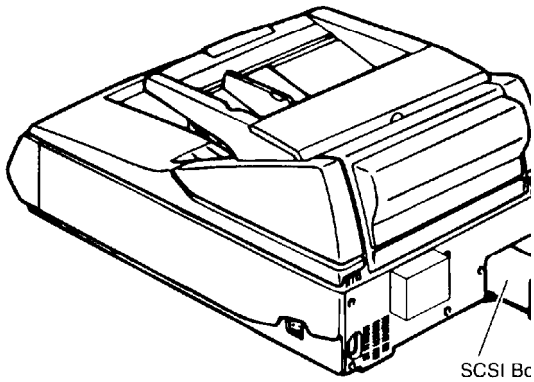
Note:

- Be sure that the DIMM module will be in the proper position and the proper side.
- To remove the DIMM module, release the white levers at both sides of the connector.



4.6. Installing the SCSI Board

1) Insert the SCSI Board into the unit along the guides and push it in firmly.	

2) Secure the SCSI Board with the 3 screws. **3) Install the scanner driver software in your computer according to the enclosed manuals.**	

4.6.1. Additional Memory Size each scanning mode (MB)

Simplex/4bit, 8bit

Size	Resolution (dpi)					
	100	200	300	400	500	600
A3	0	0	64	64	64	128
A4	0	0	0	0	64	64
A5	0	0	0	0	0	64
A6	0	0	0	0	0	0
B4 (JIS)	0	0	0	64	64	64
B5 (JIS)	0	0	0	0	64	64
B6 (JIS)	0	0	0	0	0	0
Double Letter	0	0	64	64	64	128
Legal	0	0	0	64	64	64
Letter	0	0	0	0	64	64

Duplex/4bit, 8bit

Size	Resolution (dpi)					
	100	200	300	400	500	600
A3	0	0	64	64	128	256
A4	0	0	64	64	64	128
A5	0	0	0	0	64	64
A6	0	0	0	0	0	64
B4 (JIS)	0	0	64	64	128	128
B5 (JIS)	0	0	0	64	64	64
B6 (JIS)	0	0	0	0	64	64
Double Letter	0	0	64	64	128	256
Legal	0	0	64	64	64	128
Letter	0	0	64	64	64	128

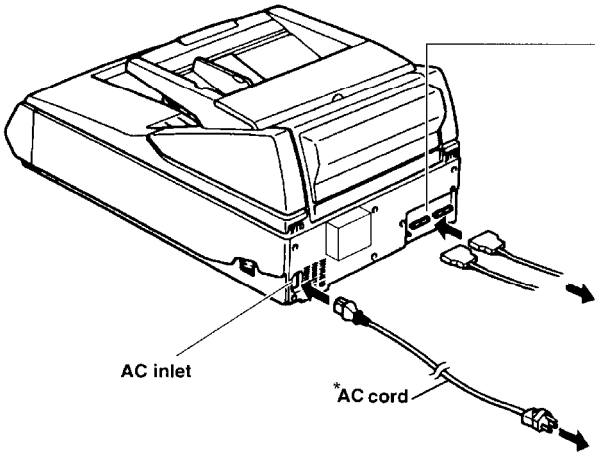
Simplex/Binary

Size	Resolution (dpi)					
	100	200	300	400	500	600
A3	0	0	0	0	0	0
A4	0	0	0	0	0	0
A5	0	0	0	0	0	0
A6	0	0	0	0	0	0
B4 (JIS)	0	0	0	0	0	0
B5 (JIS)	0	0	0	0	0	0
B6 (JIS)	0	0	0	0	0	0
Double Letter	0	0	0	0	0	0
Legal	0	0	0	0	0	0
Letter	0	0	0	0	0	0

Duplex/Binary

Size	Resolution (dpi)					
	100	200	300	400	500	600
A3	0	0	0	0	0	64
A4	0	0	0	0	0	0
A5	0	0	0	0	0	0
A6	0	0	0	0	0	0
B4 (JIS)	0	0	0	0	0	0
B5 (JIS)	0	0	0	0	0	0
B6 (JIS)	0	0	0	0	0	0
Double Letter	0	0	0	0	0	64
Legal	0	0	0	0	0	0
Letter	0	0	0	0	0	0

4.7. Connecting the Unit to a Personal Computer



Note:
*AC cord shown on the figure is for AC100-120V.

Caution:
Set the power switch on the scanner and on the host computer to OFF before connecting the interface cable. Use only the AC cord that is supplied by manufacturer.

4.8. System Conditions Requirements

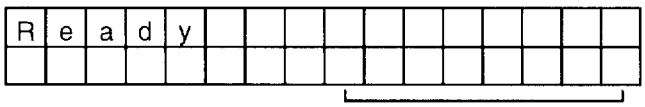
When using the scanner, the required personal computer conditions are as follows.

CPU	**Pentium 166MHz or higher (Pentium, Celeron processor or higher is recommended.**
Memory	**64 MB or higher (128 MB or higher is recommended.)**
OS	**Windows 95/Windows 98/Windows NT/Windows2000/Windows Me**
SCSI board	**Adaptec Brand AHA-1540/2930/2940/19160/29160 Series are recommended.**

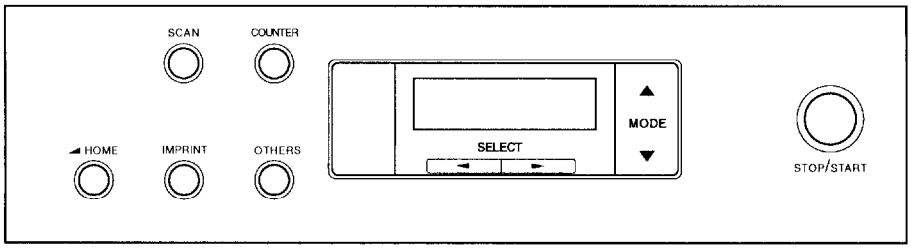
*** The scanning speed differs depending on the personal computer operating environment or application.**

4.9. LCD Settings

Before scanning the document, perform the preferred settings on the display. Setting information and scanner conditions are shown on the display.



Display panel and keys



SCAN : Press to enter the scanning setting menu.

COUNTER : Press to enter the counter setting menu.

IMPRINT : Press to enter the imprinter setting menu.

OTHERS : Press to enter other setting menu.

HOME : Press to exit from the setting section and return to the ready status. Also used to change the display language.

STOP/START : Used to stop or start scanning a document.

: Up to 32 characters can be displayed during scanning or setting.

▲ : Press to advance to the next mode in the selected menu.

▼ : Press to return to the previous mode in the selected menu.

► : Press to advance to the next value in the selected mode.

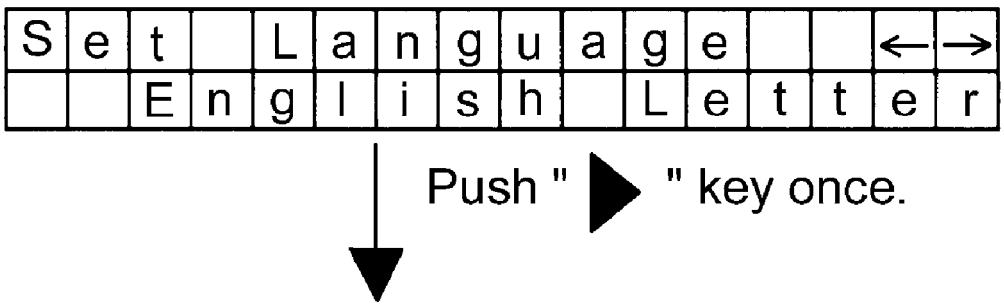
◄ : Press to return to the previous value in the selected mode.

4.9.1. Setting the language

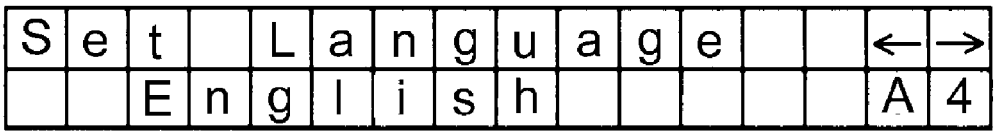
1. Turn the power on while pressing the HOME key.

Note:

The language setting mode is selected automatically when the scanner's power is turned on for the first time after the scanner was purchased.



2. Use the [◄] key or [►] key to select the "English Letter", "English A4" or "Deutsch A4", "ニホンゴ A4".



3. Press the HOME key.

- The display will change to the select language, then the scanner will be ready.

- This setting will remain until it is changed to another setting.

R	e	a	d	y										

4.9.2. Setting the SCSI ID and Terminator

1. Press the OTHERS key.
   Enters setting modes other than SCAN, COUNTER, or IMPRINT and displays the version.

0	1	.	V	e	r	s	i	o	n					
						M	1	.	0	0	F	1	.	0	0

2. Press the MODE key.
   Press the MODE key [▲] to display the SCSI ID, which is the fourth setting.

0	4	.	S	C	S	I		I	D					
												N	o	.	6

3. Press the SELECT [◀] key or [▶] key to select the desired setting.
   The [▶] key moves to the next ID as shown below.
   The [◀] key moves to the previous ID.

→0→1→2→3→4→5→6→7

O	4	.	S	C	S	I		I	D					
												N	o	.	7

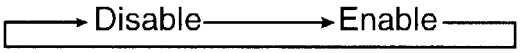
4. Press the MODE key [▲] to switch to the terminator setting.
   To activate the SCSI ID settings, press the HOME key to return to “READY”, then turn the unit off and on.

0	5	.	T	e	r	m	i	n	a	t	o	r		
									D	i	s	a	b	l	e

5. Press the SELECT [◀] key or [▶] key to select the desired setting.

The [▶] key moves to the next content as shown below.

The [◀] key moves to the previous content.



Note:

- If the scanner is the last device in the SCSI chain, then the terminator should be set to “Enable”. But, under the above SCSI chain and scanner’s turn-off, the terminator should be attached to the SCSI connector on the scanner.
- Setting the SCSI ID will be activated after turning the power OFF and turning it ON again.
- Setting the terminator will be activated after turning the power OFF and turning it ON again.

0	5	.	T	e	r	m	i	n	a	t	o	r			
										E	n	a	b	l	e

5. SECTIONAL VIEWS

5.1. Motors (Front View)

5.2. Optical Units and Imprinter

5.3. Rollers

5.4. Drive Belts

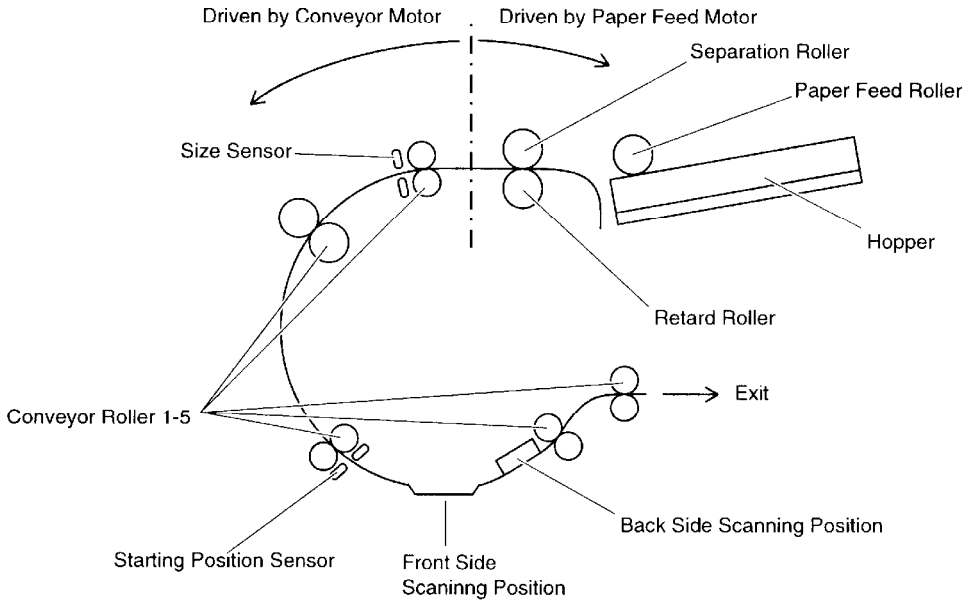
5.5. Circuit Boards

5.6. Sensor Boards and Switches

6. MECHANICAL FUNCTION

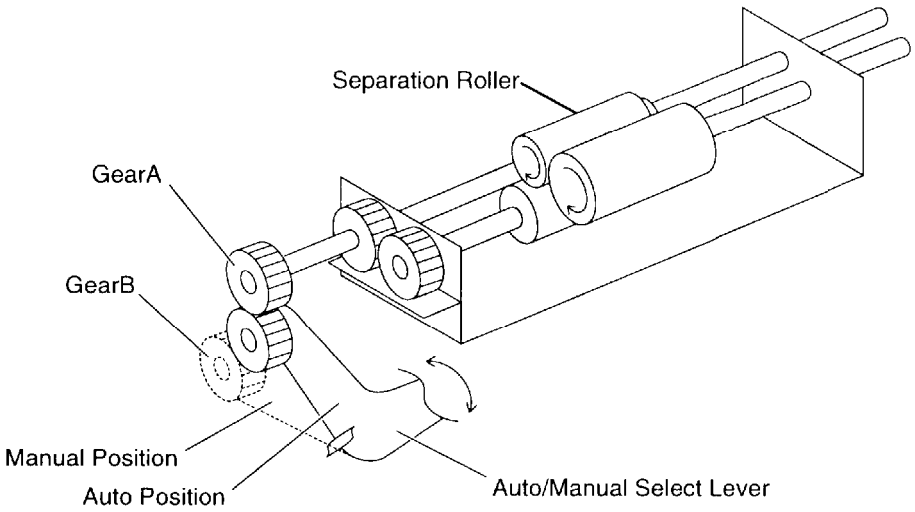
6.1. Paper Feed Mechanism

Fig. 6-1



1. **When the paper is set on the Hopper, and the scanning command is issued from PC, the Hopper rises and the paper will be brought into contact with Paper Feed Roller.**
2. **The Conveyor Motor activates to rotate the Conveyor Roller 1 through 5.**
3. **The Paper Feed Motor activates to rotate the Paper Feed and Separation Rollers. The Paper Feed Roller picks up a page. A spring attaches the Retard Roller to the Separation Roller. The supporting axis of the Retard Roller is connected to the fixed gear through the torque limiter and the timing belt's gear train. In case there is only one page picked up between Separation Roller and Retard Roller, the Retard Roller rotates in direction which the Separation Roller rotates by allowing the Retard Roller to slip on the torgue limiter. If there are two or more pages between Separation Roller and Retard Roller, torque limiter is set so that the load of the torque limiter increases accordingly, to allow slip friction for each page. As a result of this, only the top page passes through the conveyor section, and the additional pages are prevented from passing through.**

Fig. 6-2



4. When the top of the paper passes through on Size Sensor via Separation / Retard Roller and Conveyor Roller, Paper motor stops.
5. When the top of the first page reaches to Scanning Position, CCD sensor and or CIS is driven to scan. And by using the above sensors, scanning process starts.
6. When the end of the paper passes through on CIS(Back Side Scanning Position), Conveyor Motor stops, Scanner waits for next scanning start command from PC. At this time, if no following paper to scan, the current scanning paper is gone out.
7. When the end of the first page passes through on the Size Sensor on the continuous scanning mode, Paper Feed Motor starts again after an interval of approx. 100mm on duplex mode(approx.60mm on simplex mode) and feed the following paper through the conveyor section.
8. Repeat the above (3) to (8).
9. After finishing all scanning process, Hopper goes down to the original position and the series of Scanning sequence ends.

6.2. Manual Feed Mode

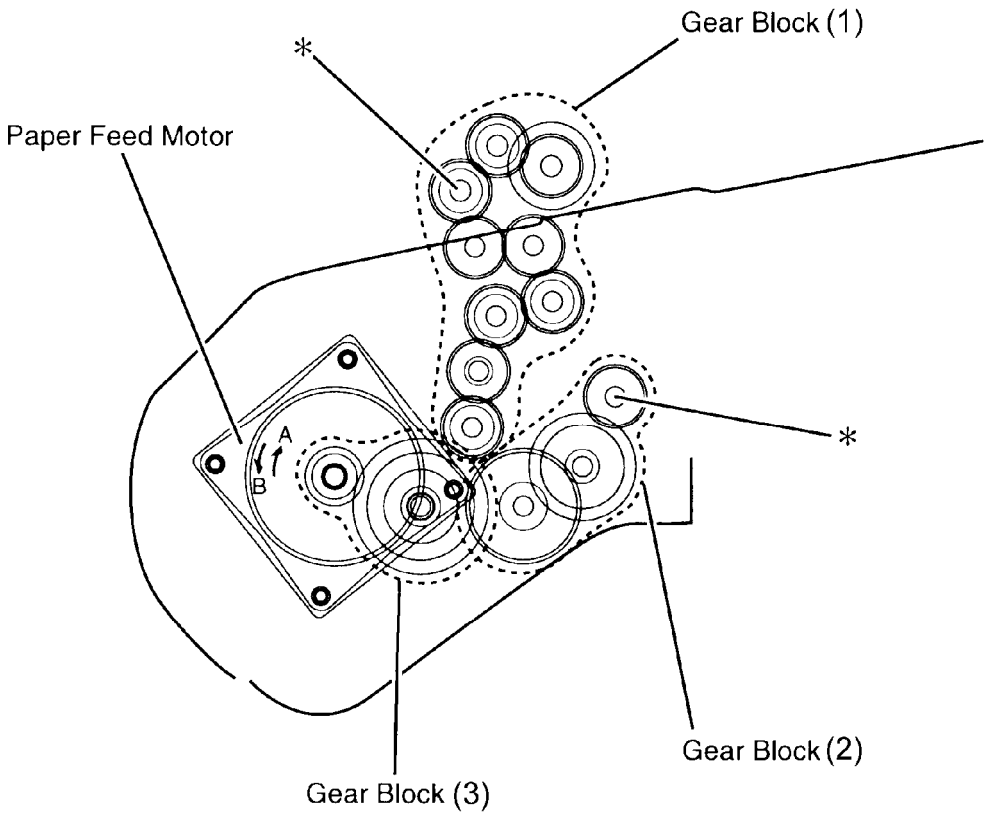
1. For multiple sheet's scanning, there is possibility that the first page and the second page will be separated, and the paper will be torn if paper is scanned while the Retard Roller is locked.

2. When Auto/Manual Select Lever is set to “Auto”, the Gear B fixed with lever is connected to the Retard Roller. Thereby, The Retard Roller is locked through torque limiter.
3. When Auto/Manual Selector Lever is set to “Manual”, the Gear B fixed with lever is free from Gear A connected to the Retard Roller. In this case, the Retard Roller operates as free roller for the Separation Roller, and does not operate paper separation function because the Retard Roller rotates independently.

6.3. Paper Feed Roller/Hopper Lift Drive Mechanism

1. Paper Feed Motor drives either Paper Feed Roller mechanism or Hopper Lift mechanism by selecting the direction of rotation.
2. The drive system is shown on Fig. 6-3.
   (a) The gear block (1) belongs to Drive system for Paper Feed Roller and Separation Roller.
   (b) The gear block (2) belongs to Drive system for Hopper Lift.
   (c) The gear block (3) belongs to Drive system for Paper Feed Roller, Separation Roller, and Hopper Lift in common.

Fig. 6-3



3. When the Paper Feed Motor drives in the direction of arrow A, Paper Feed Roller is activated, based on Output axis. On the other hand, when the Paper Feed Motor drives in the direction of arrow B, Hopper lift mechanism is activated. Gears marked with "*" on Each Gear block have one way clutches. When the gears are activated to rotate against the direction of normal rotation, the one way clutches slipped and the series of rotation are not transmitted to the mechanical block.

6.4. Hopper Lift Mechanism

Fig. 6-4

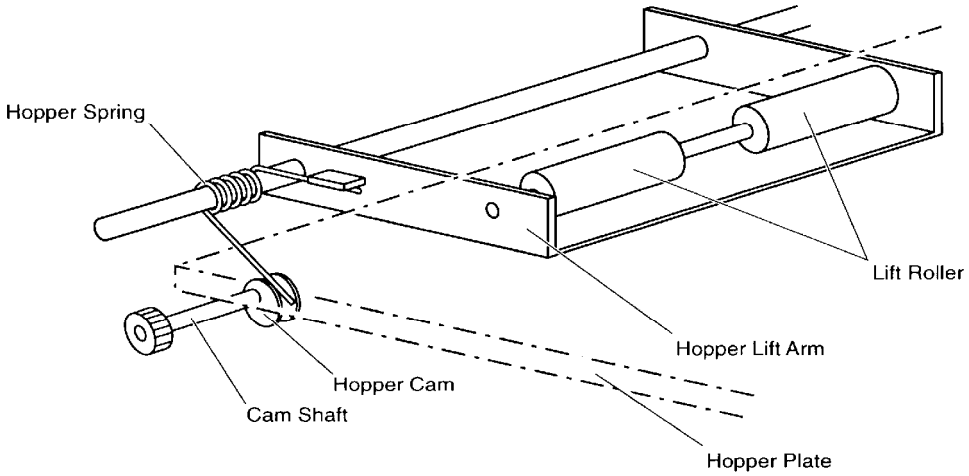


Fig. 6-5

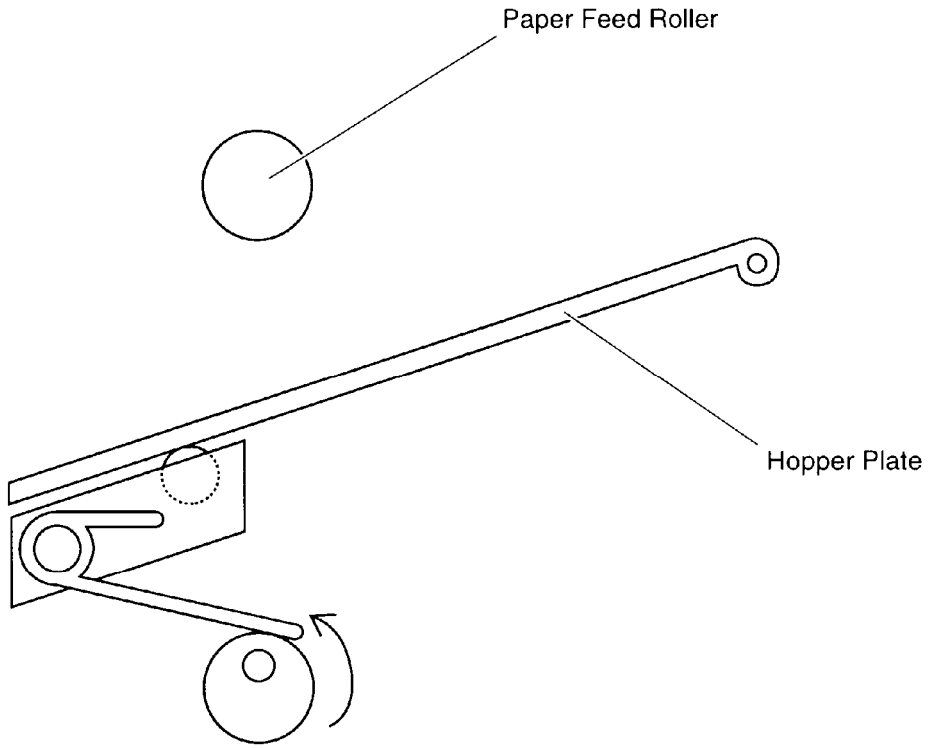
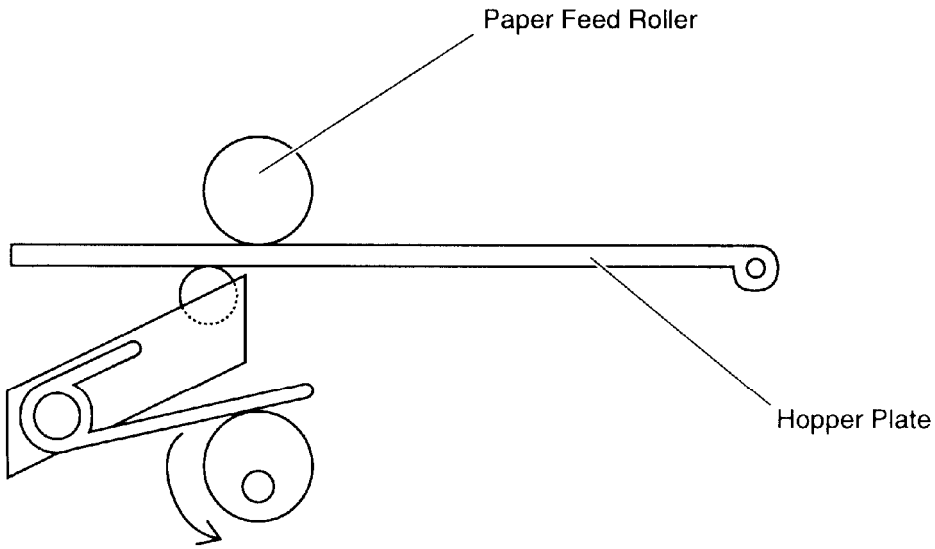


Fig. 6-6



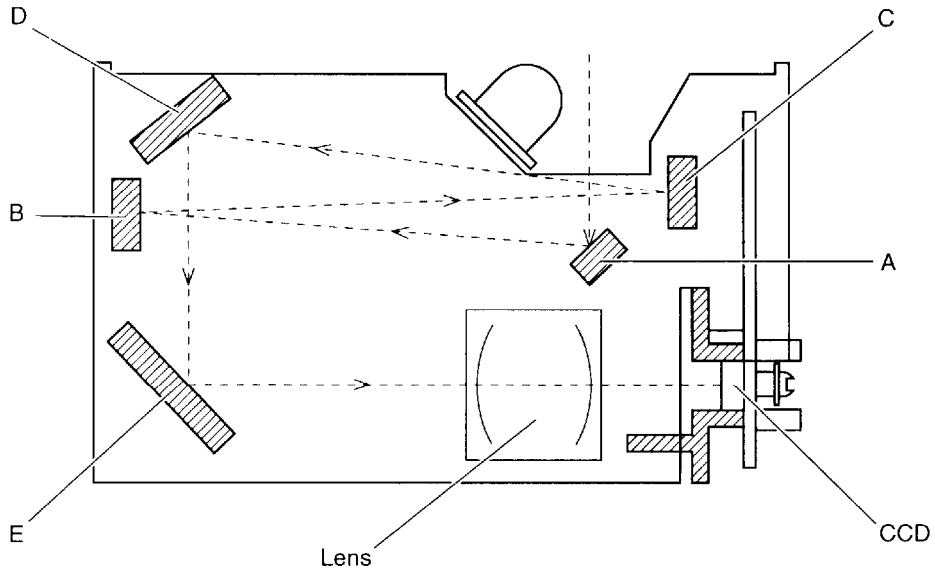
1. **Hopper Plate is mounted on Lift Roller of Hopper Lift Arm.**
2. **Hopper Lift Arm is supported by Hopper Cam through Hopper Spring.**
3. **Hopper Cam is an eccentric type cam, and is connected to Hopper Lift Gear block mentioned in Fig. 6-3.**

4. When Hopper cam is in condition as shown in Fig. 6-5, the paper can be set.
5. When the Hopper cam rotates in the direction of arrow as shown in Fig. 6-6, it pushes up Hopper spring, and enables to paper feeding by attaching Hopper Plate to Paper Feed Roller.
6. And when the Hopper cam still more rotates in the direction of arrow, the cam rotates until the position as shown in Fig. 6-5, and Hopper Plate goes down.

6.5. Optical Unit

The light reflected from the paper surface is transmitted via mirrors A → B → C → D → E, and is transmitted to CCD surface through the lens at last.

Fig. 6-7



7. MAINTENANCE

7.1. Maintenance Chart

C : Clean, **R: Replace** **(x 1000 Sheets)**

Description	Part No	50	100	150	200	250	300
Paper Feed Roller	PBDRA0081Z	C	C	C	C	C	R
Separation Roller	PBDRA0065Z	C	C	C	C	C	R
Retard Roller	PBDRA0083Z	C	C	C	C	C	R
Conveyor Roller 1	PBDRX03S6055	C	C	C	C	C	C
Conveyor Roller 2	PBDRX04S6055	C	C	C	C	C	C
Conveyor Roller 3	PBDRX09S6055	C	C	C	C	C	C
Conveyor Roller 4	PBDRX10S6055	C	C	C	C	C	C
Conveyor Roller 5	PBDRX11S6055	C	C	C	C	C	C
ADF Glass	PBHEA0093Z-J	C	C	C	C	C	C
Sensor Plate	PBUEX0117Y	C	C	C	C	C	C
Free Roller	PBDRA0029Z	C	C	C	C	C	C
Sensor Roller (Only for KV-S6055W/WU)	PBDRA0103Y-J	C	C	C	C	C	C
CIS (Only for KV-S6055W/WU)	EQ4R300Q1	C	C	C	C	C	C
Cold Ray Flourescent Lamp	CFX12AYG/36H	Lighting period 1000 hours					

Note:

Whenever black line occurs on scanning image, clean ADF Glass, Sensor Plate, and Sensor Roller, disregarding the above value.

7.2. Roller Cleaning / Paper Feed Roller, Separation Roller, Retard Roller

1. Turn off the Power.
2. Open the ADF door.
3. Clean the surfaces of Paper Feed Roller and Separation Roller with cleaning paper. (KV-SS03)
4. Clean the surface of Retard Roller with Cleaning Paper(KV-SS03), when Roller Cleaning message is indicated on the LCD (See Section 9).

Fig. 7-1

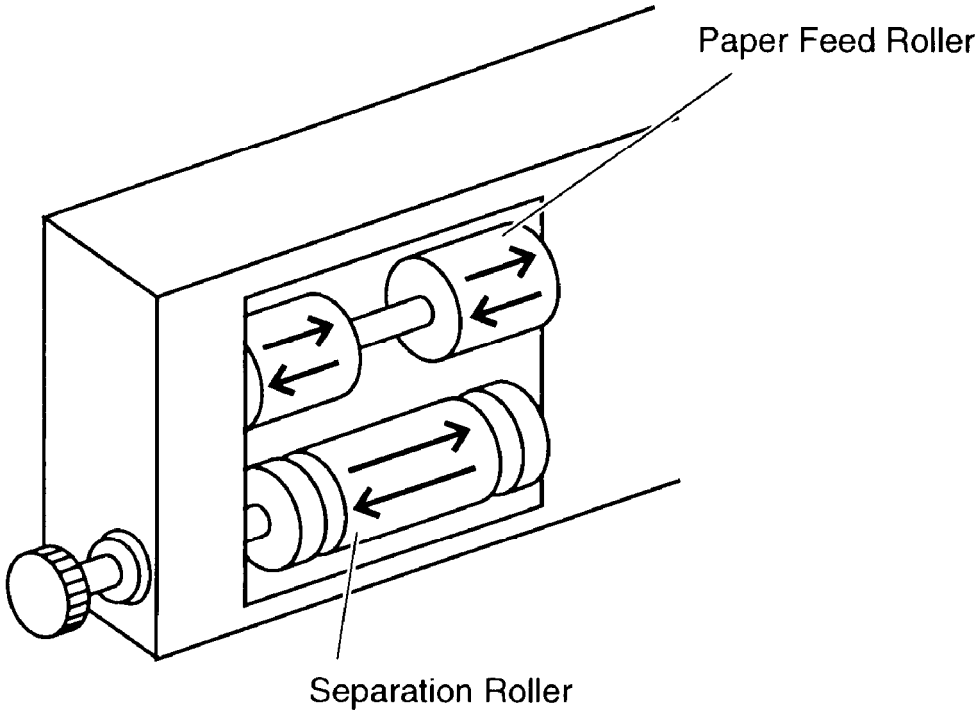
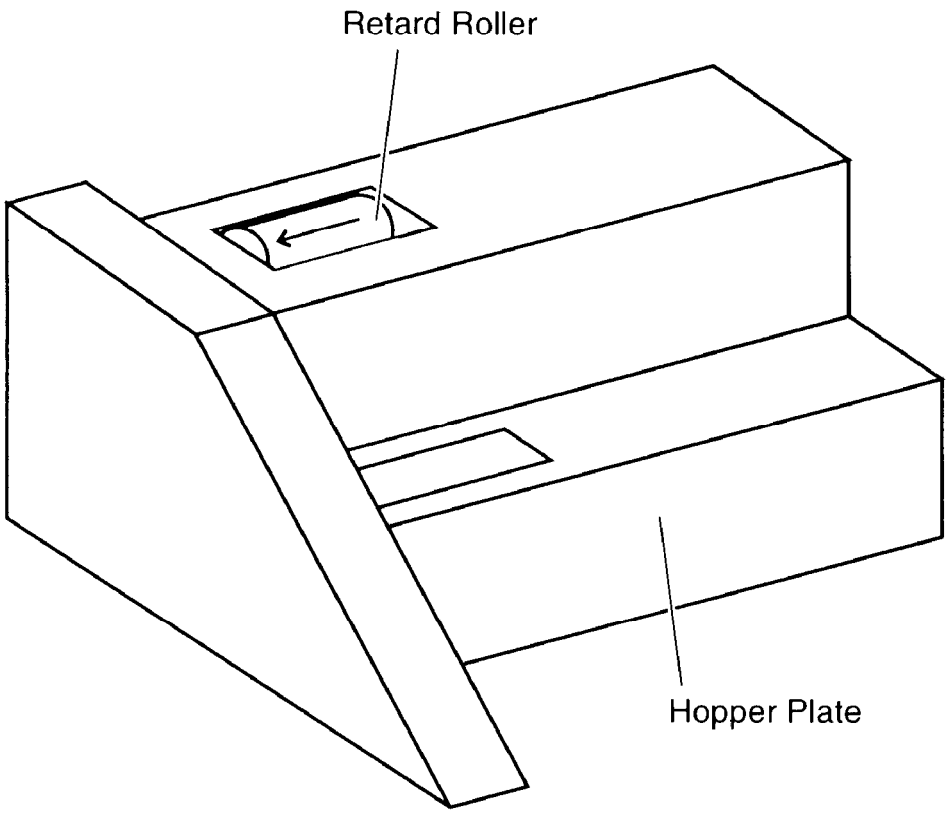


Fig. 7-2



Note:

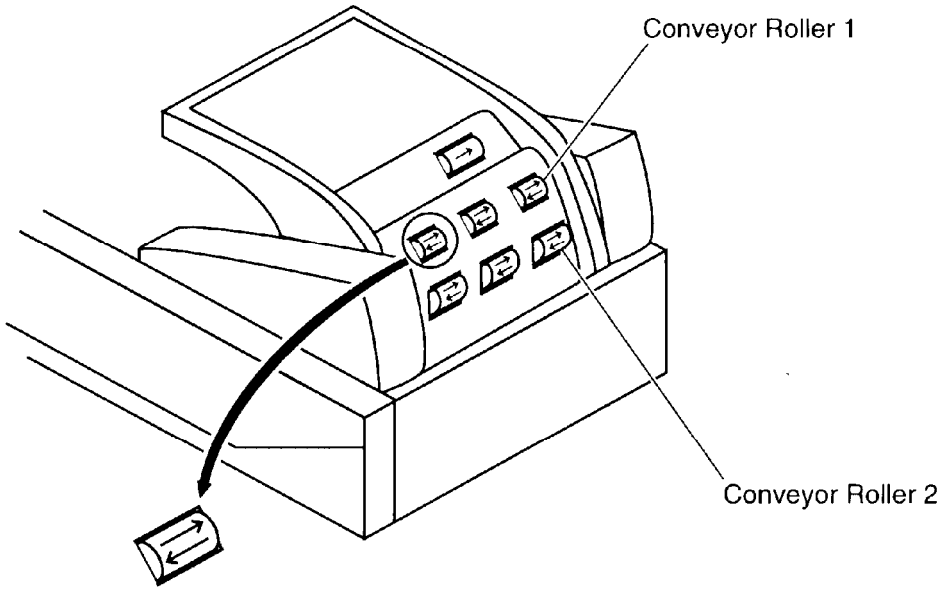
Clean any dirt from the Retard Roller according to the arrows as shown in Fig. 7-2. Otherwise the Retard Roller may be removed

from the original position, and the paper-feed function may not work well.

7.3. Roller Cleaning / Conveyor Roller 1-5

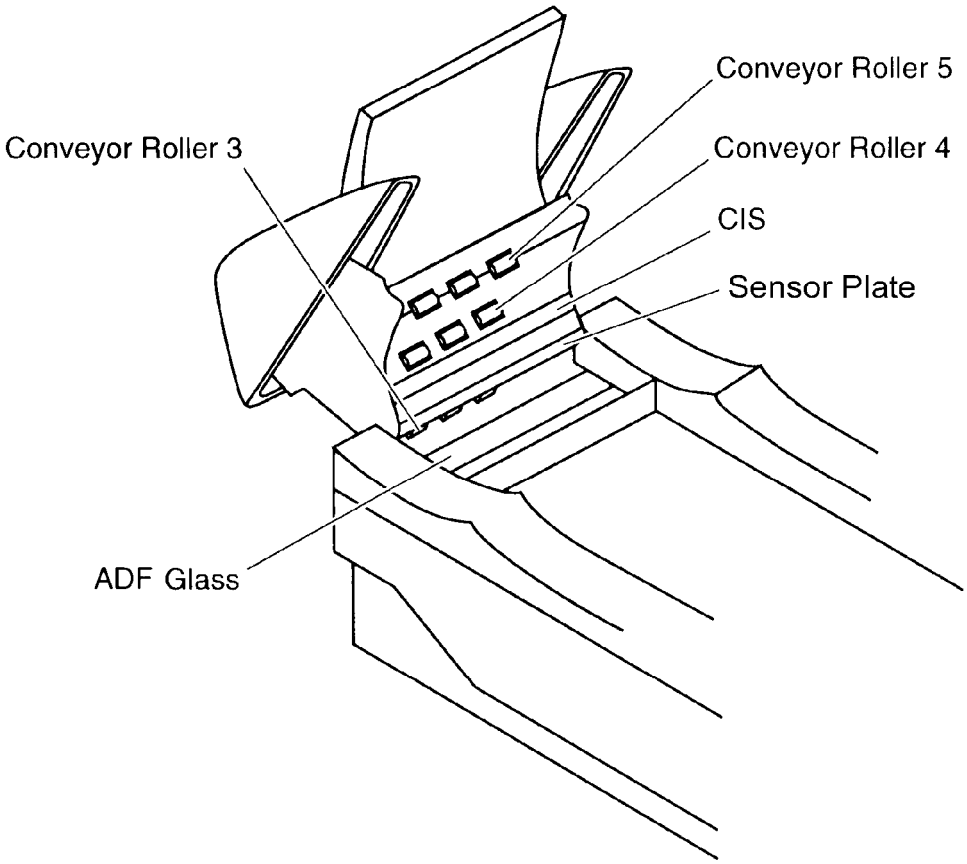
1. Conveyor Roller 1, 2
   (1) Turn off the Power.
   (2) Open the ADF Door.
   (3) Clean these rollers using the cleaning paper (KV-SS03) to wipe the dirt on the surface of the rollers.

Fig. 7-3



2. Conveyor Roller 3, 4, 5
   (1) Turn off the Power.
   (2) Open the Front Door.
   (3) Clean these rollers using the cleaning paper (KV-SS03) to wipe the dirt on the surface of these rollers.
   (Same as cleaning the CIS, Sensor Plate, ADF Glass)

Fig. 7-4



7.4. Replacing Limited Life Parts

1. Paper Feed Roller, Separation Roller

(1) Turn off the Power.
(2) Open the ADF Door.
(3) Open the Paper Feed Conveyor.
(4) Pull the gear side of Paper Feed Roller toward arrow (1).
(5) Slide toward arrow (2).

Fig. 7-5

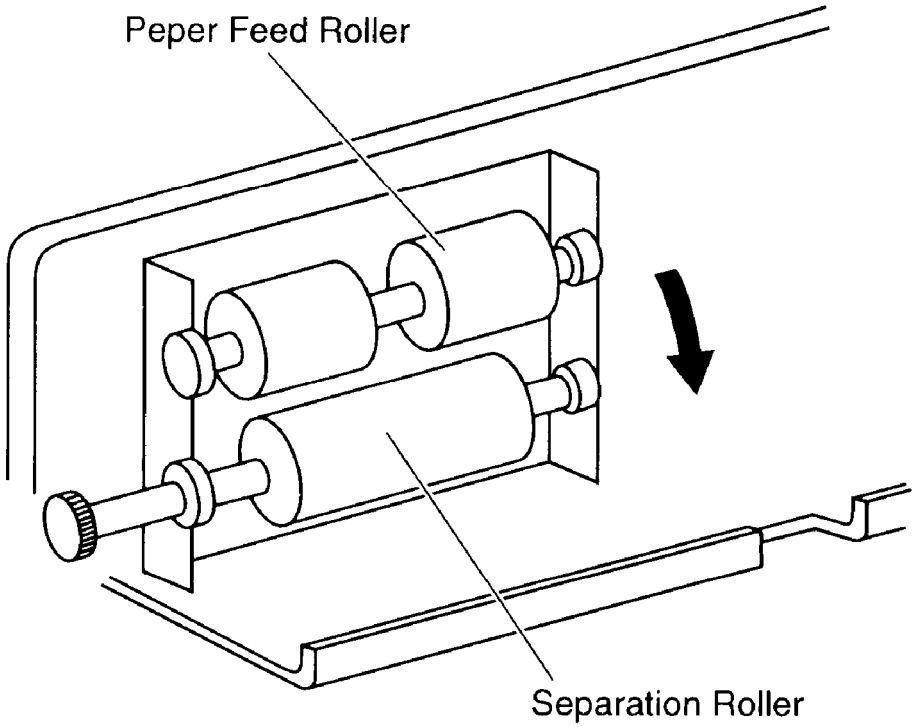
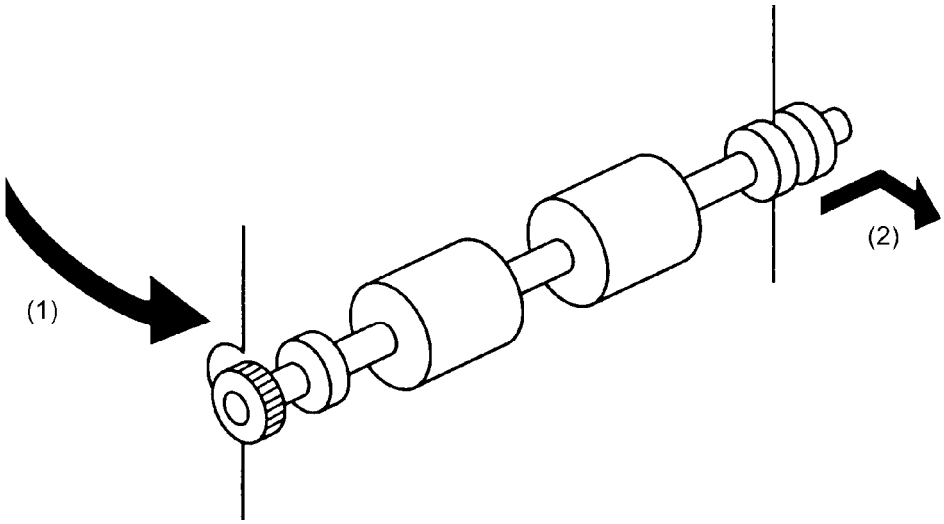


Fig. 7-6



2. Retard Roller

(1) Turn off the Power.

(2) Open the ADF Door.

(3) Open the Retard Conveyor. (See Fig. 7-7.)

(4) Grip the Retard Roller and slide toward arrow (3). (See Fig. 7-8.)

Fig. 7-7

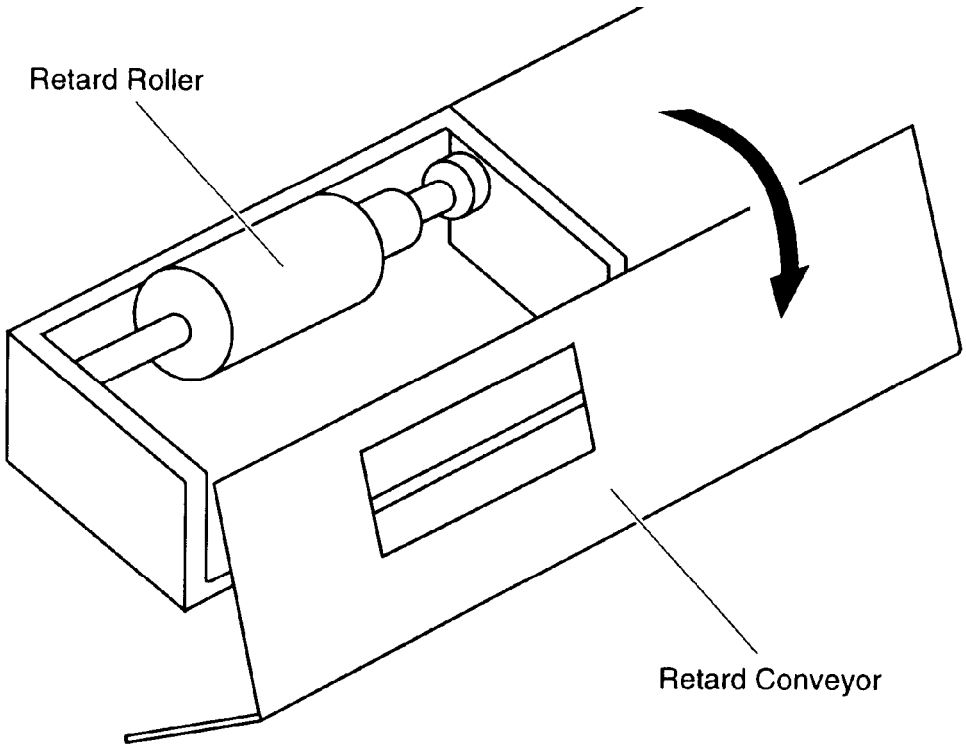
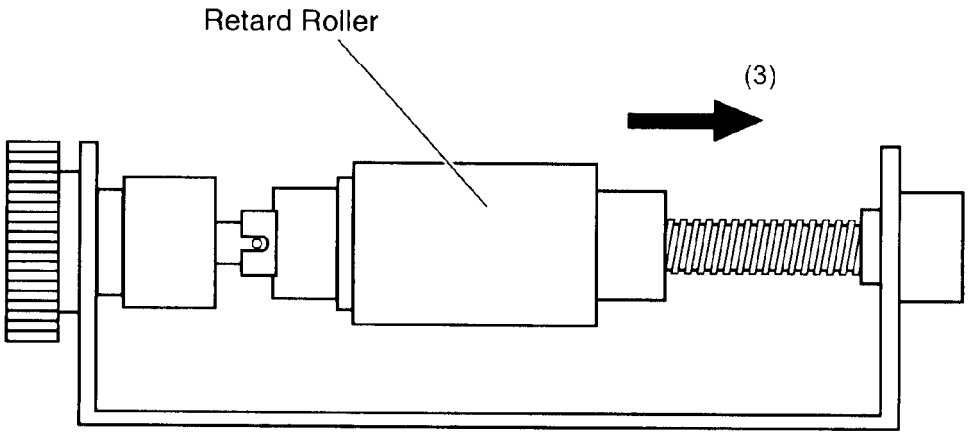


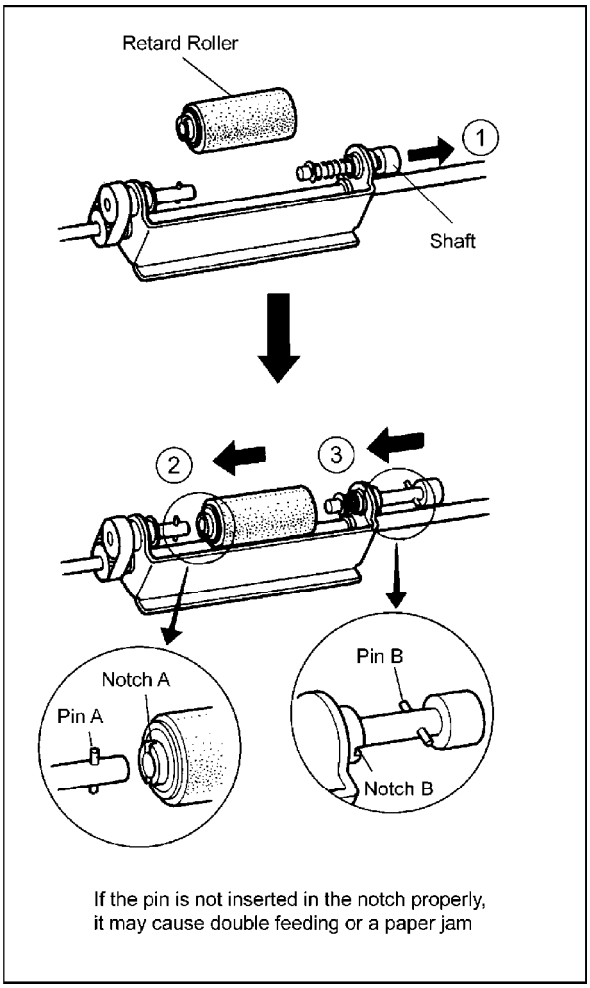
Fig. 7-8



Note : When reassembling the Retard roller

Pull the right side of the shaft in the direction of arrow ① and hold it there. Attach the new retard roller module as shown in the direction of arrow ②.
Return the right side of the shaft as shown in the direction of arrow ③.

- Confirm if pins A and B are inserted in their notches correctly.
- Attach the retard roller module so that the notch A is on the left side.



If the pin is not inserted in the notch properly, it may cause double feeding or a paper jam

8. DISASSEMBLY INSTRUCTIONS

8.1. Disassembly Flowchart

The flowchart indicates disassembly items of the Covers, Unit Components and Circuit Board assemblies. When reassembling, perform the steps in the reverse order unless otherwise noted in Reassembling Notes.

Fig. 8-1

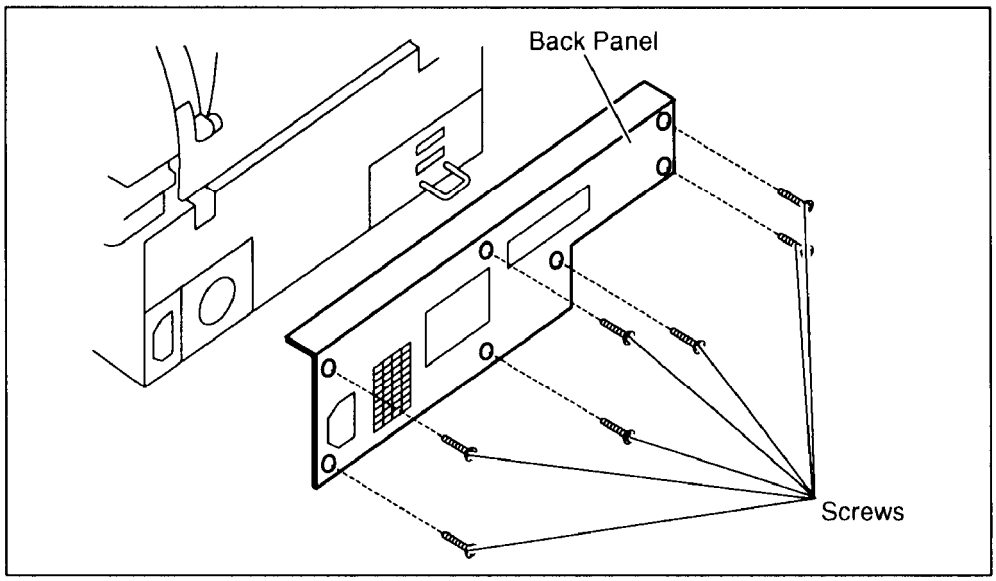
8.2. Exterior

8.2.1. Back Panel

1. Remove 7 screws.

2. Remove the Back Panel.

Fig. 8-2



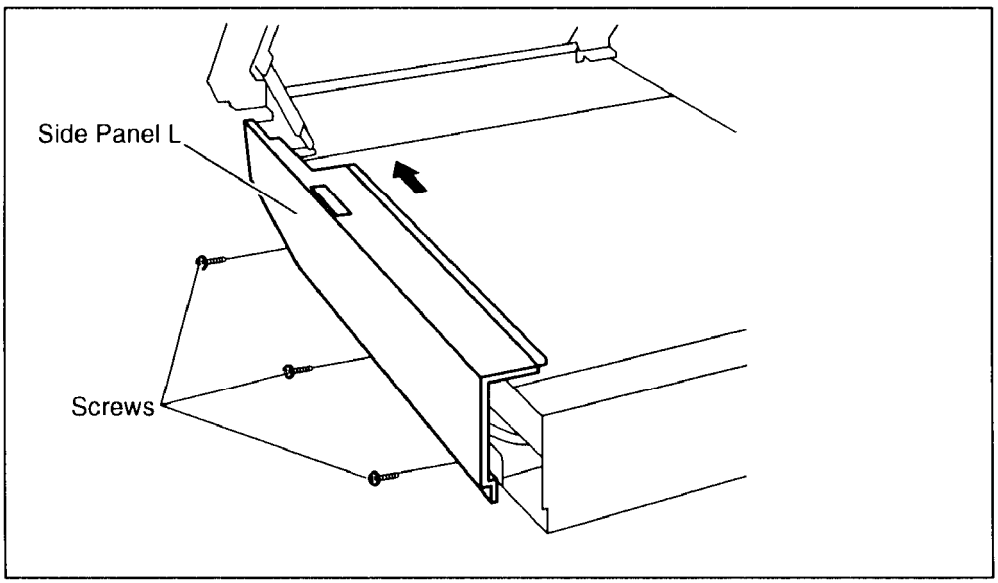
8.2.2. Side Panel L

1. Remove Back Panel.
(See 8.2.1.)

2. Remove 3 screws.

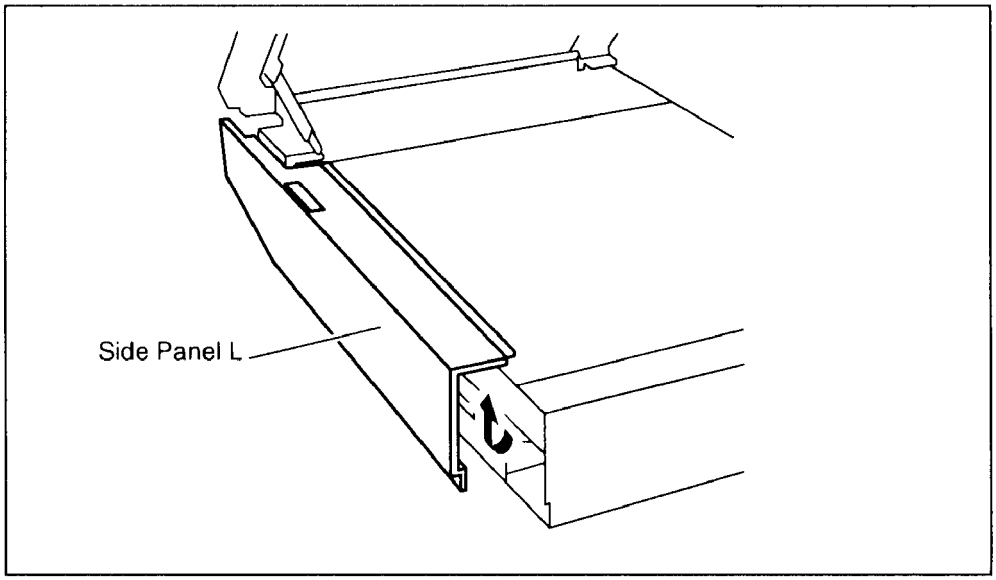
3. Slide Side Panel L toward the back, as shown in Fig. 8-3.

Fig. 8-3



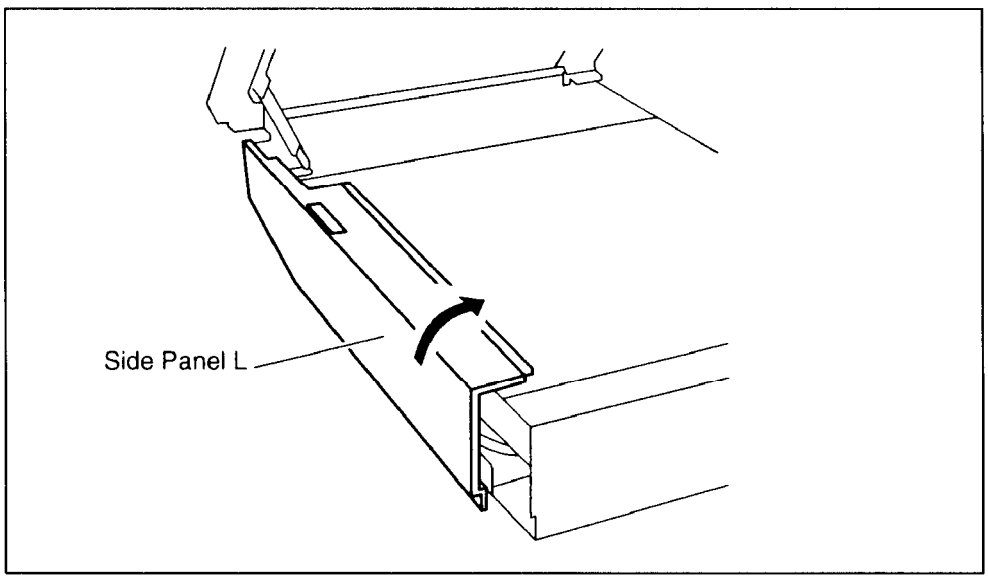
4. Lift Side Panel L up, as shown in Fig. 8-4.

Fig. 8-4



5. Centralize the axis (fulcrum) of the lever and turn Side Panel L toward the right, as shows in Fig. 8-5.
   While turning, bring it down toward the inside (toward the left).
6. Detach the screw-fixed hook on the back of Side Panel L from the chassis, and remove later.

Fig. 8-5

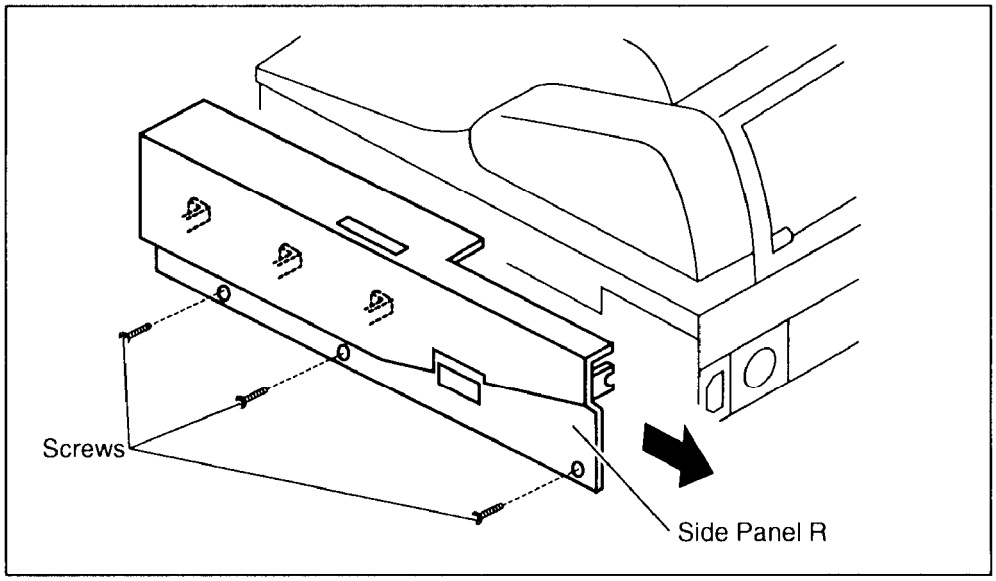


8.2.3. Side Panel R

1. Remove Back Panel.
   (See 8.2.1.)
2. Remove 3 screws.

3. Slide the Side Panel R backward as shown in Fig. 8-6.
4. Remove the Side Panel R.

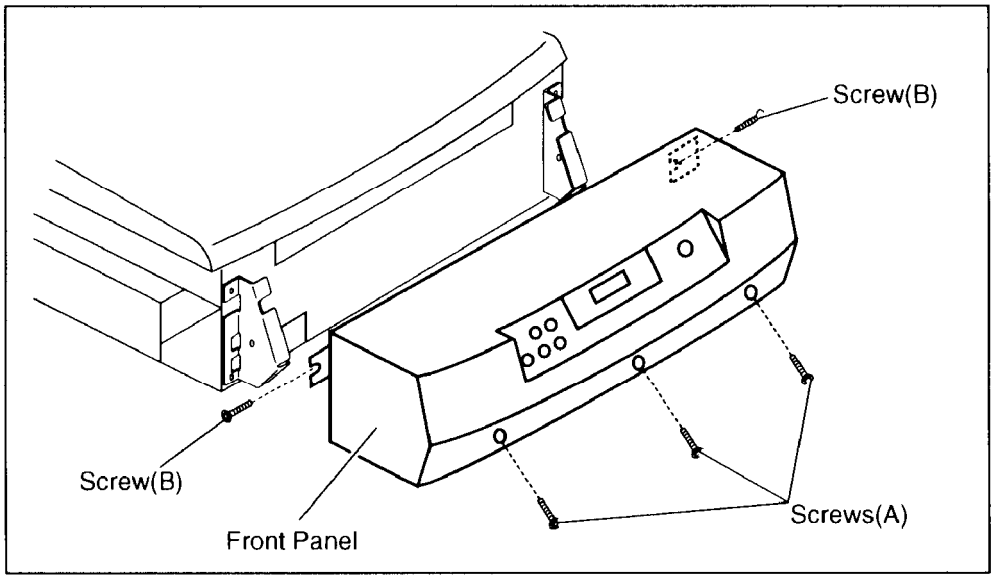
Fig. 8-6



8.2.4. Front Panel

1. Remove the Side Panel L.
   (See 8.2.2.)
2. Remove the Side Panel R.
   (See 8.2.3.)
3. Remove 3 screws(A) and 2 screws(B).
4. Disconnect CN536.
5. Remove the Front Panel.

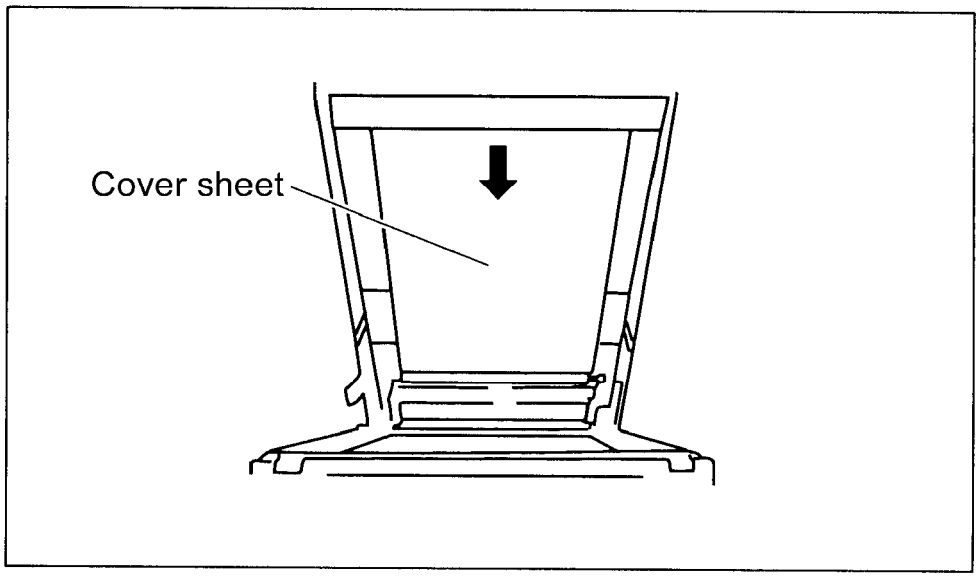
Fig. 8-7



8.2.5. Flatbed Sheet

1. Peel off Flatbed Sheet, as shown in Fig. 8-8.

Fig. 8-8



8.2.6. ADF Side Panel L

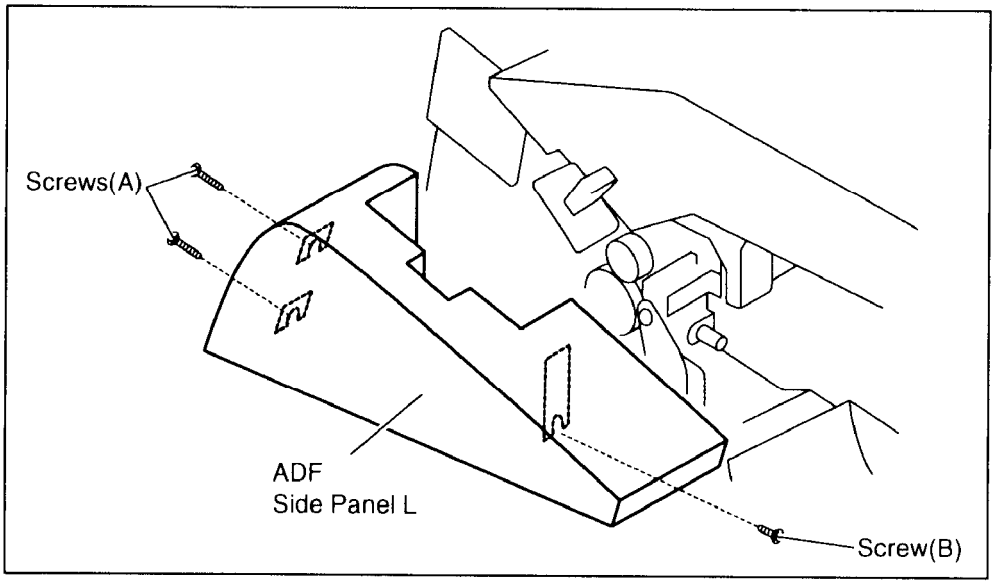
1. Remove 2 screws(A).

2. Open Front Door.

3. Remove screw(B).

4. Remove the ADF Side Panel L.

Fig. 8-9



8.2.7. ADF Side Panel R

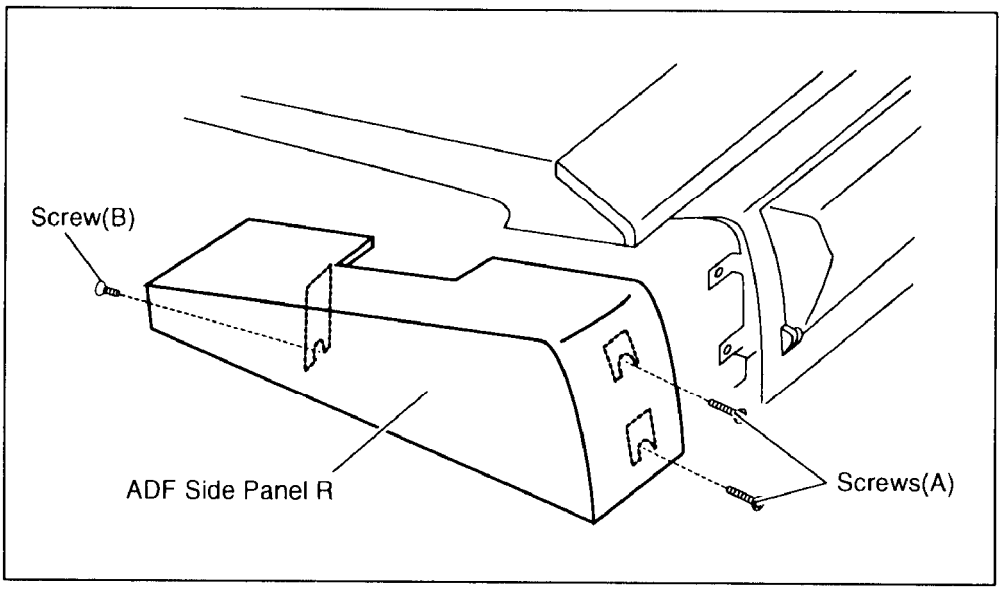
1. Remove 2 screws(A).

2. Open Front Door.

3. Remove screw(B).

4. Remove the ADF Side Panel R.

Fig. 8-10

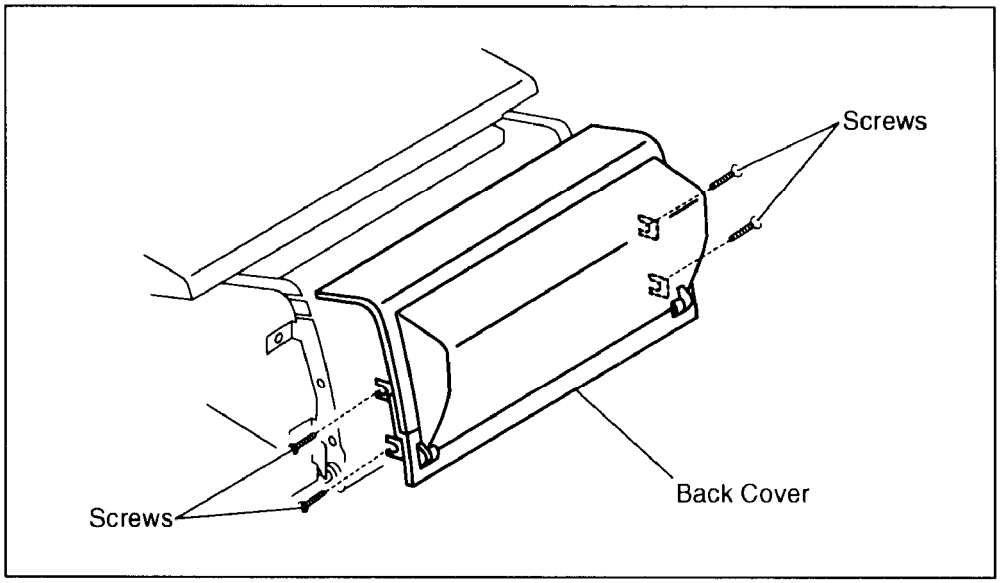


8.2.8. Back Cover

1. Open ADF Door.

2. Loosen 4 screws and remove the Back Cover.

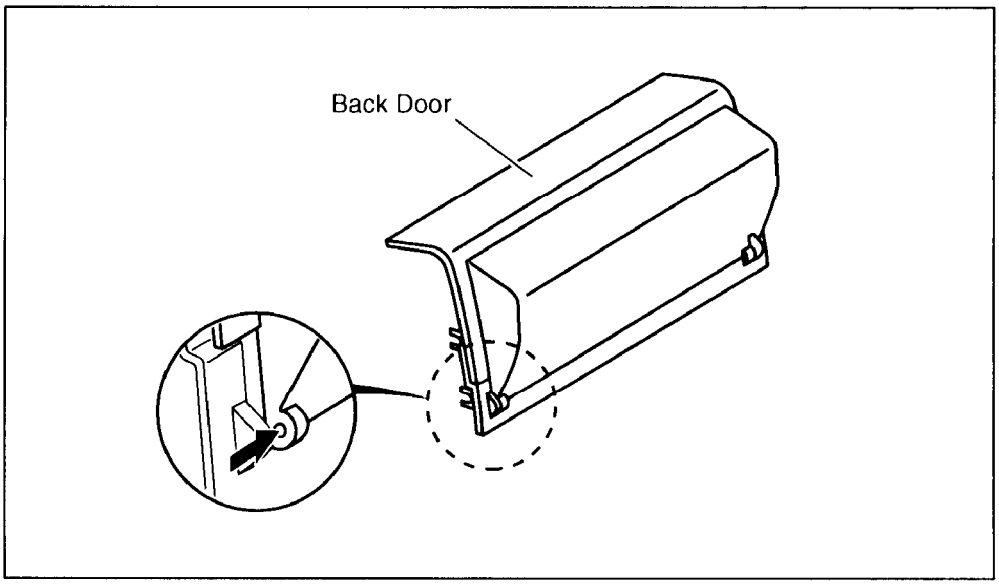
Fig. 8-11



8.2.9. Back Door

1. Push the Back Door, as shown in Fig. 8-12.

Fig. 8-12



8.2.10. Hopper Tray

1. Open Front Door.

2. Push the Hopper Tray, as shown in the Fig. 8-13.

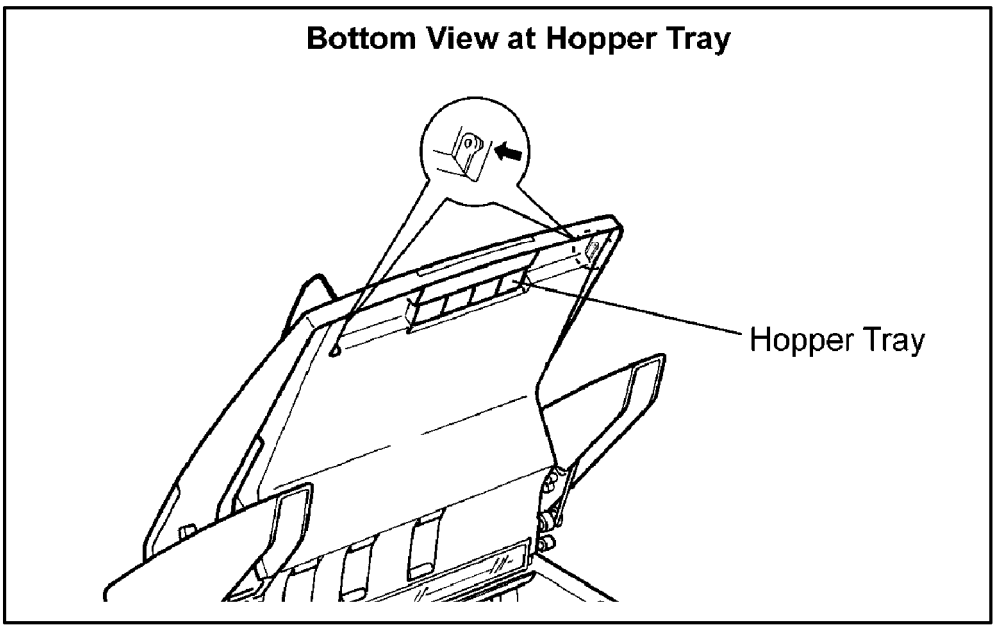
3. Disconnect CN529.

Note:

When connecting CN529, printed character on cable should be

upper side.

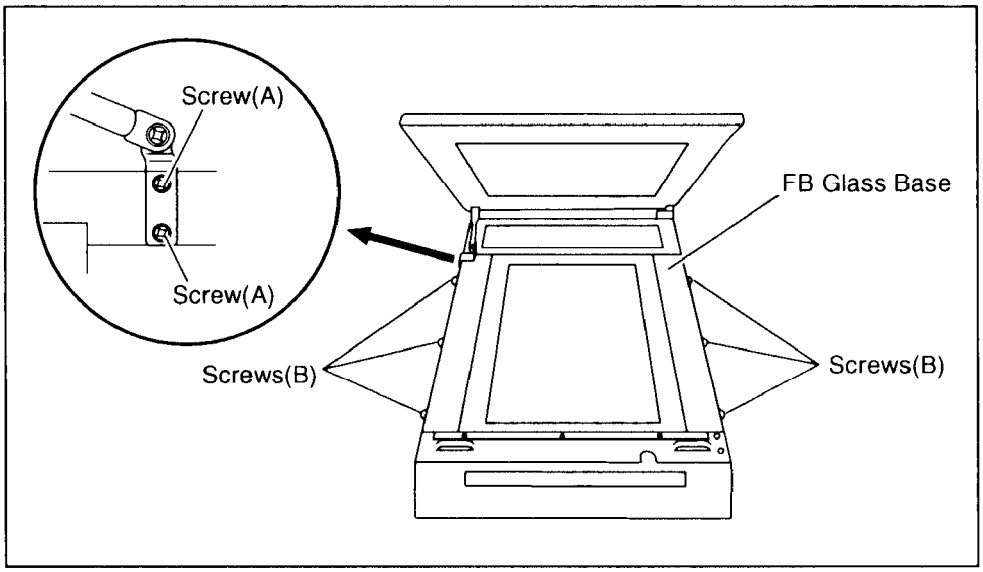
Fig. 8-13



8.2.11. FB Glass Base

1. Open Document Cover.
2. Remove Side Panel L.
   (See 8.2.2.)
3. Remove Side Panel R.
   (See 8.2.3.)
4. Remove Front Panel.
   (See 8.2.4.)
5. Loosen 2 screws(A).
6. Remove 6 screws and FB Glass Base.

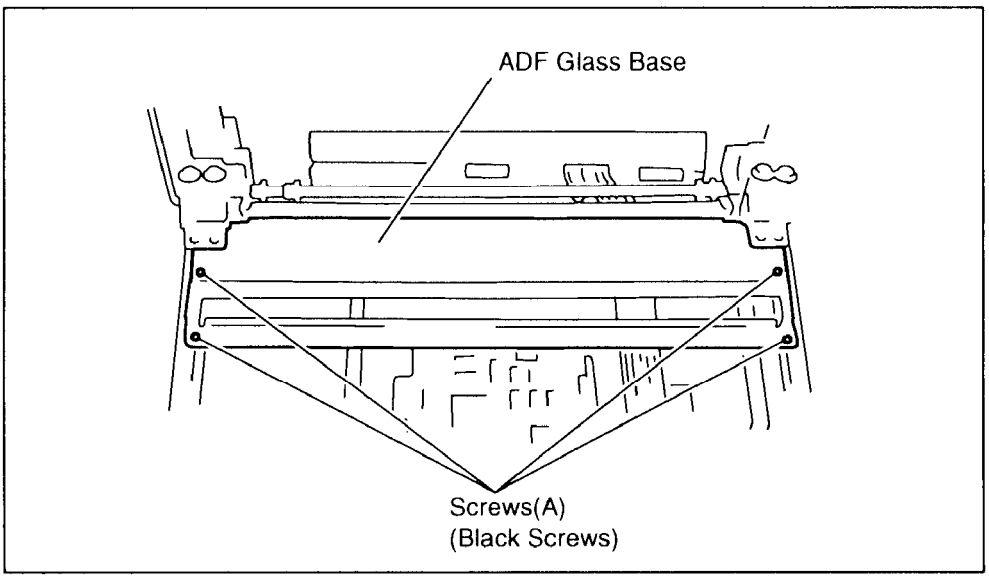
Fig. 8-14



8.2.12. ADF Glass Base

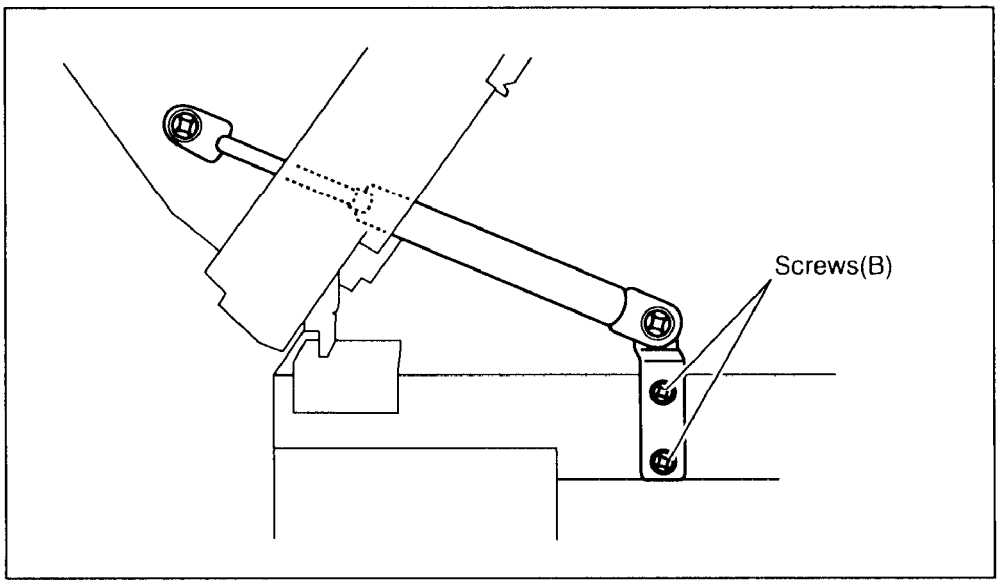
1. Open Document Cover.
2. Remove Side Panel L.
   (See 8.2.2.)
3. Remove Side Panel R.
   (See 8.2.3.)
4. Remove 4 screws(A).

Fig. 8-15



5. Remove 2 screws(B) and ADF Glass Base.

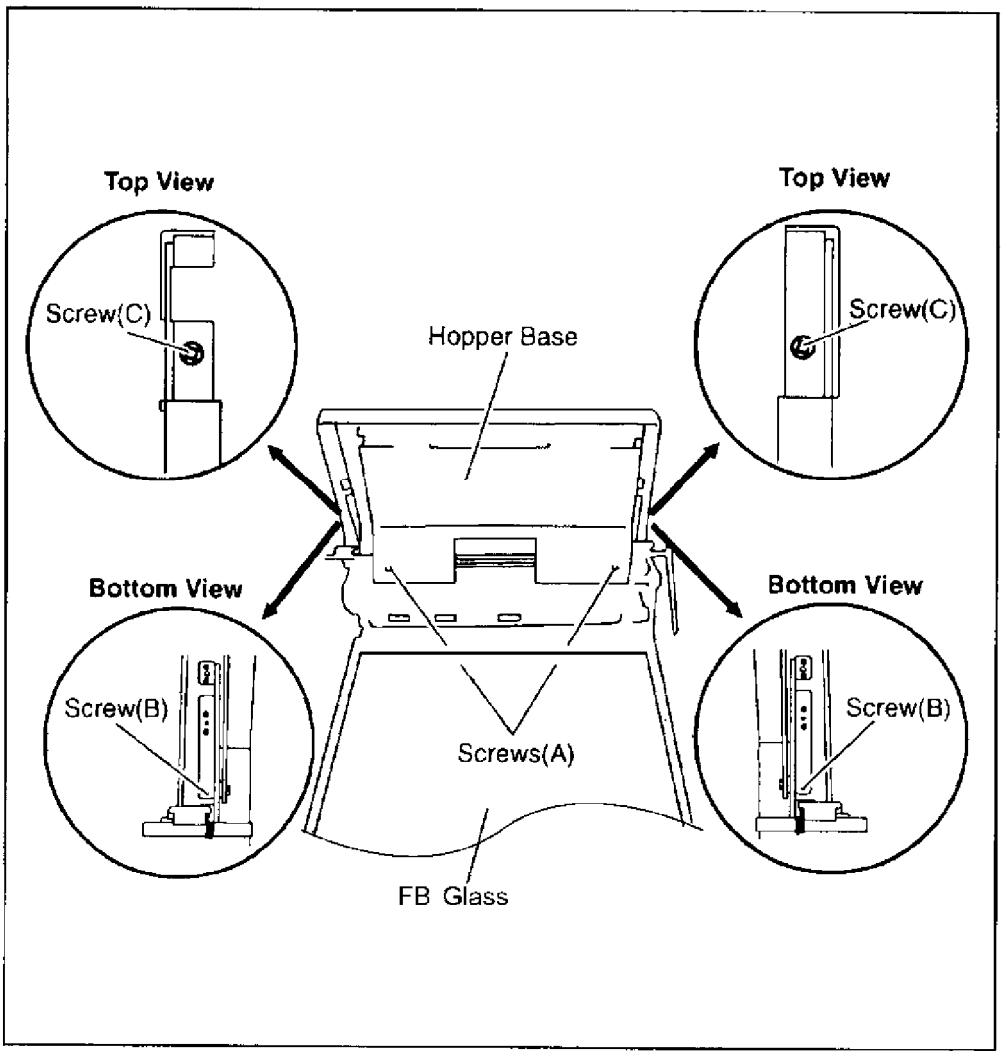
Fig. 8-16



8.2.13. Hopper Base

1. **Remove Hopper Tray.**
   (See 8.2.10.)
2. **Remove 2 screws(A).**
3. **Remove 2 screws(B) from the bottom of Hopper Base.**
4. **Remove 2 screws(C) from the top of Hopper Base.**
5. **Remove the Hopper Base.**

Fig. 8-17



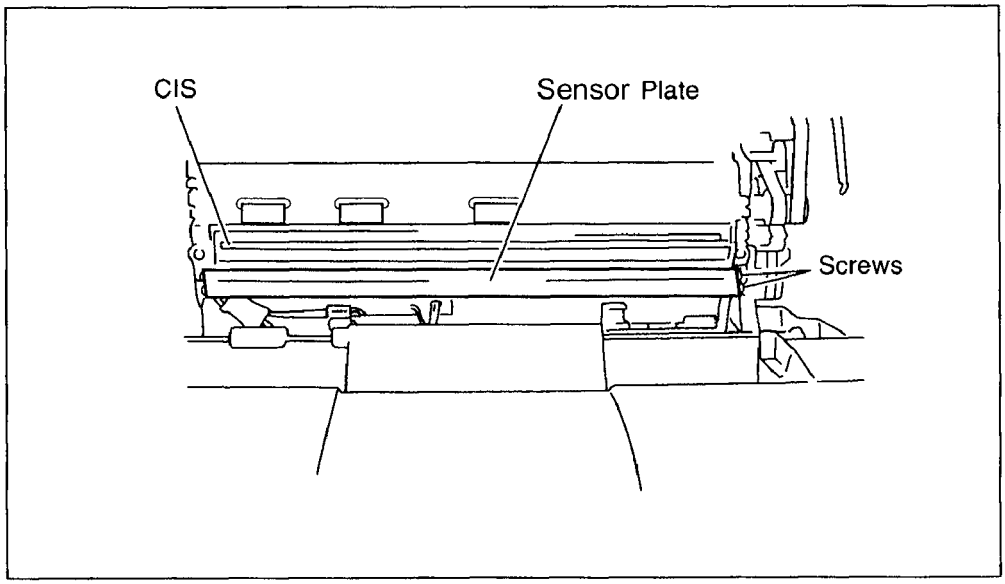
8.2.14. Sensor Plate

1. Open Front Door.

2. Loosen 2 screws.

3. Remove Sensor Plate.

Fig. 8-18

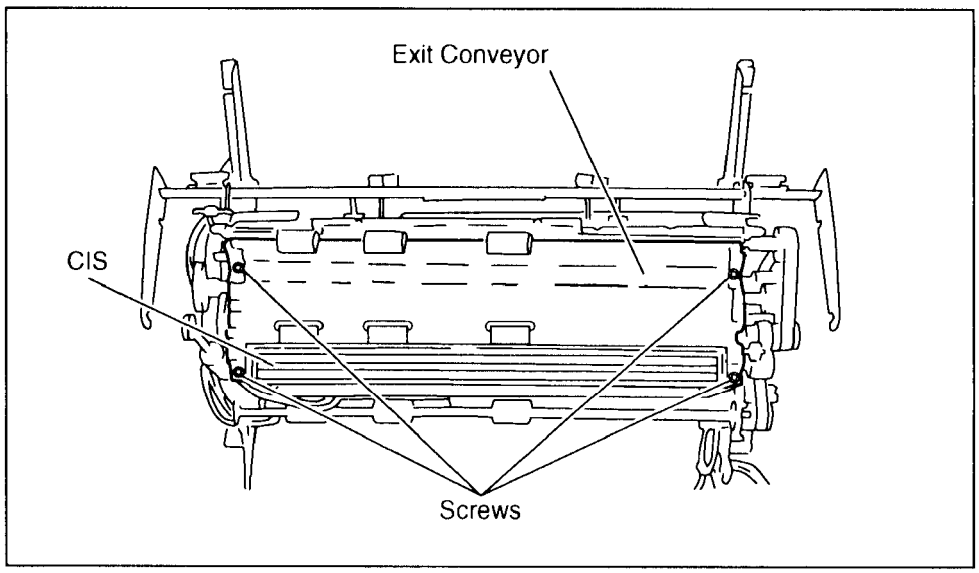


8.2.15. Exit Conveyor

1. Open Front Door.

2. Remove 4 screws and Exit Conveyor.

Fig. 8-19

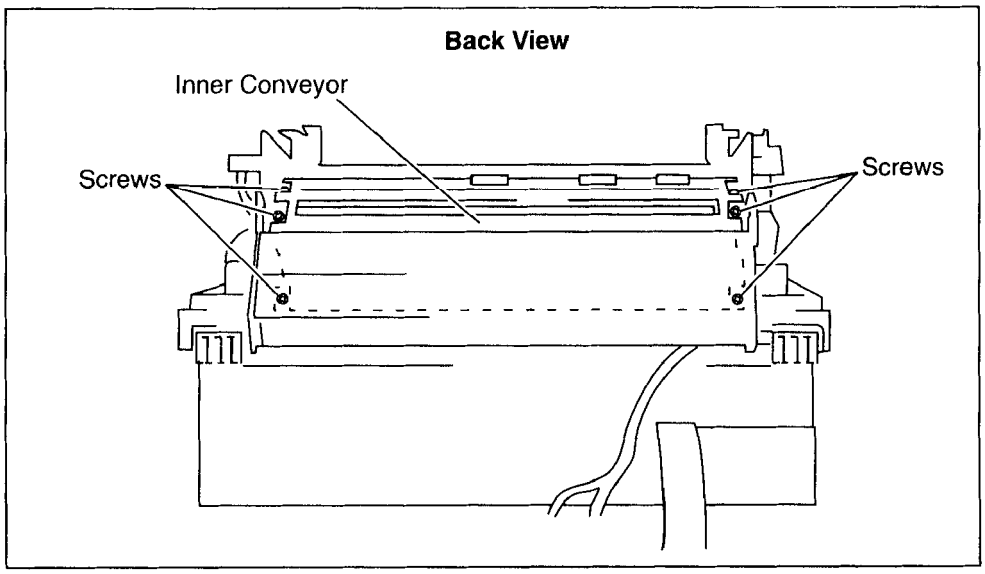


8.2.16. Inner Conveyor

1. Remove the Back Cover.
(See 8.2.8.)

2. Remove 6 screws and Inner Conveyor.

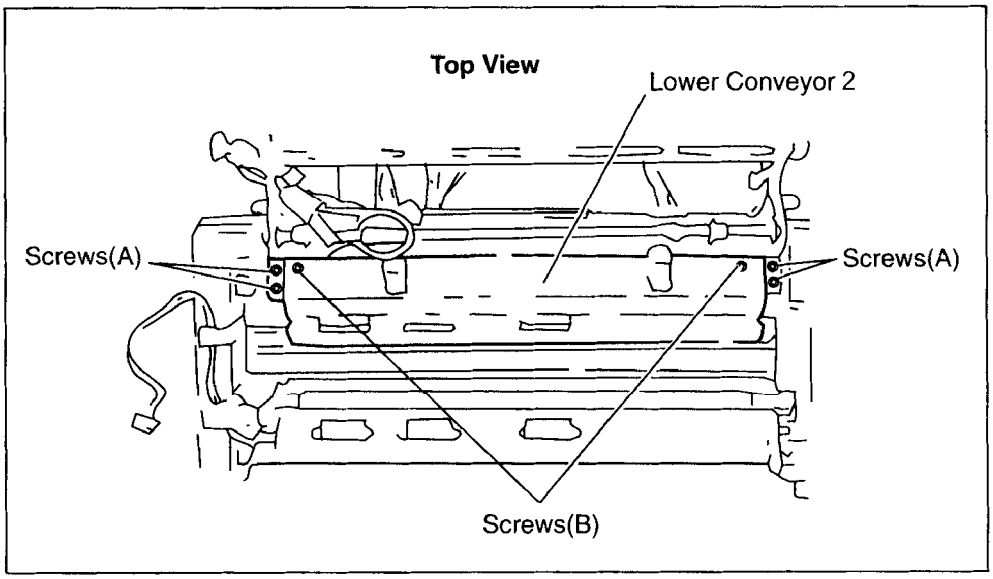
Fig. 8-20



8.2.17. Lower Conveyor 2

1. Remove ADF Side Panel L.
   (See 8.2.6.)
2. Remove ADF Side Panel R.
   (See 8.2.7.)
3. Remove Gas Damper.
   (See 8.3.17.)
4. Open Front Door.
5. Remove 4 screws(A).
6. Remove 2 screws(B) and Lower Conveyor 2.

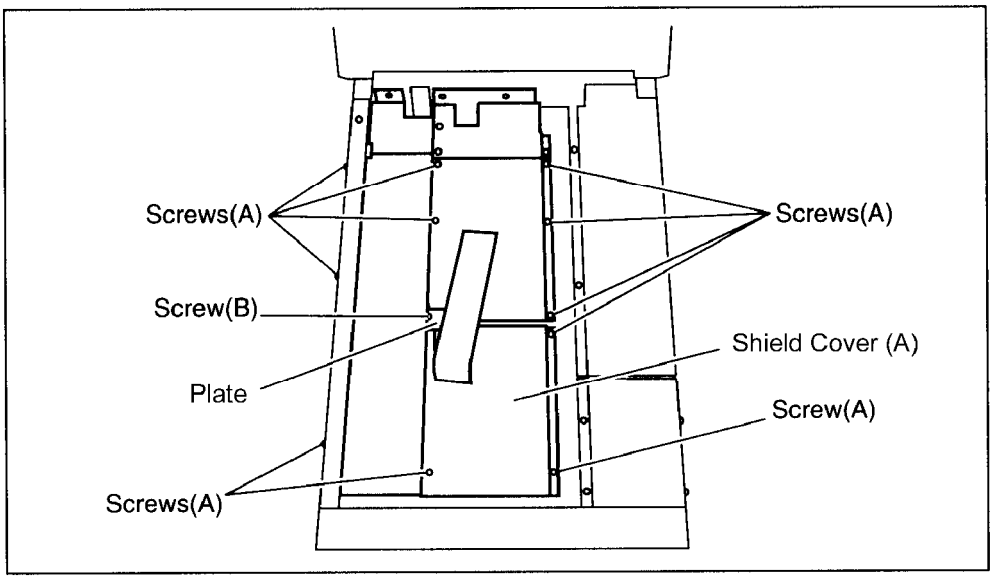
Fig. 8-21



8.2.18. Shield Plate

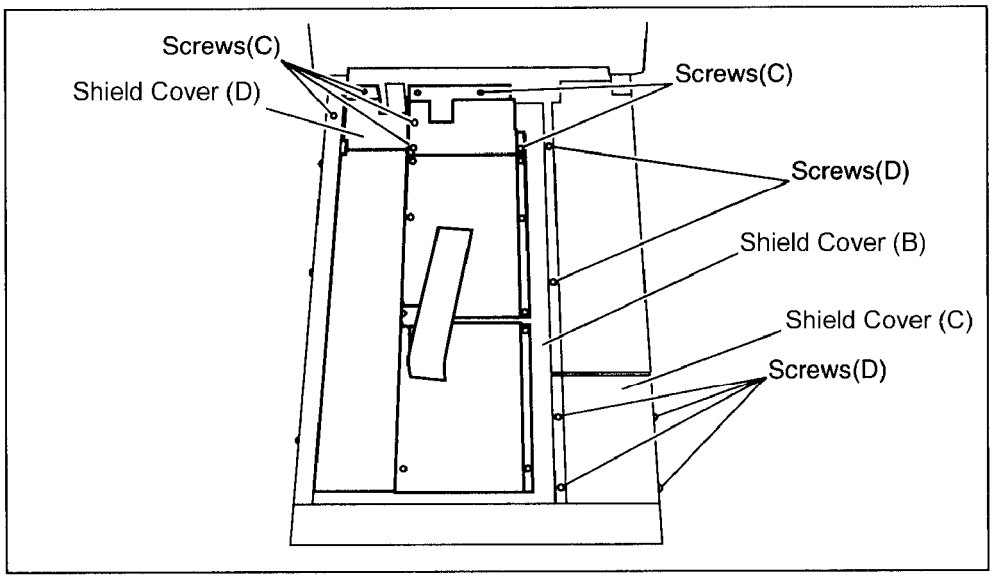
1. Remove Optical Carriage.
   (See 8.3.1.)
2. Remove screw(B) and Plate.
3. Remove 11 screws(A) and Shield Cover(A).

Fig. 8-22



4. Remove 6 screws(C) and Shield Cover(D).
5. Remove 6 screws(D), Shield Cover(B), and Shield Cover(C).

Fig. 8-23

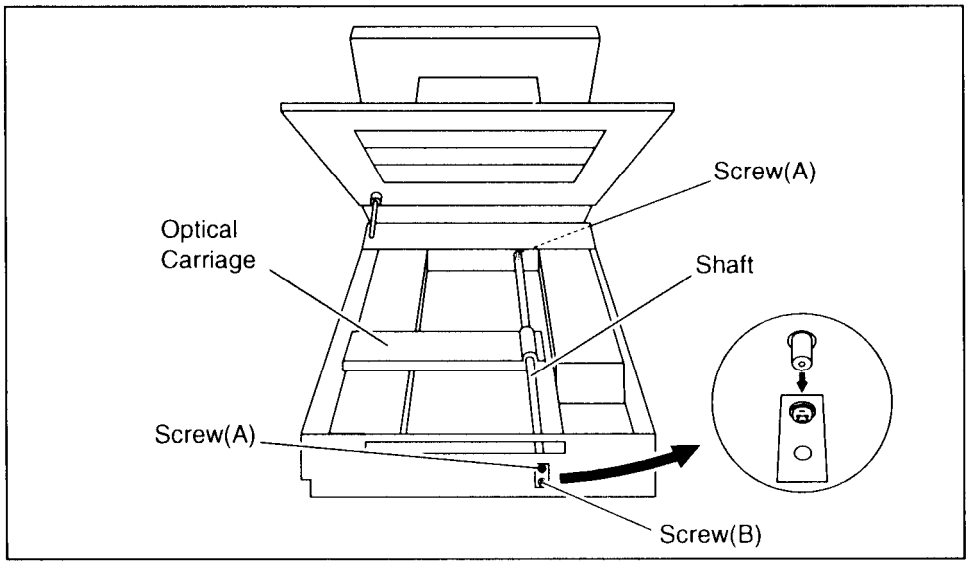


8.3. Unit Components

8.3.1. Optical Carriage /

1. Remove FB Glass Base.
   (See 8.2.11.)
2. Remove ADF Glass Base.
   (See 8.2.12.)
3. Remove 2 screws(A) and Loosen screws(B) and pull out Shaft, as shown in Fig.8-24.
4. Disconnect Connector from Optical Carriage.
   Note:
   When assembling, supply the cable to this carriage so that “CCD” character is seen from front side.
5. Remove Optical Carriage.

Fig. 8-24

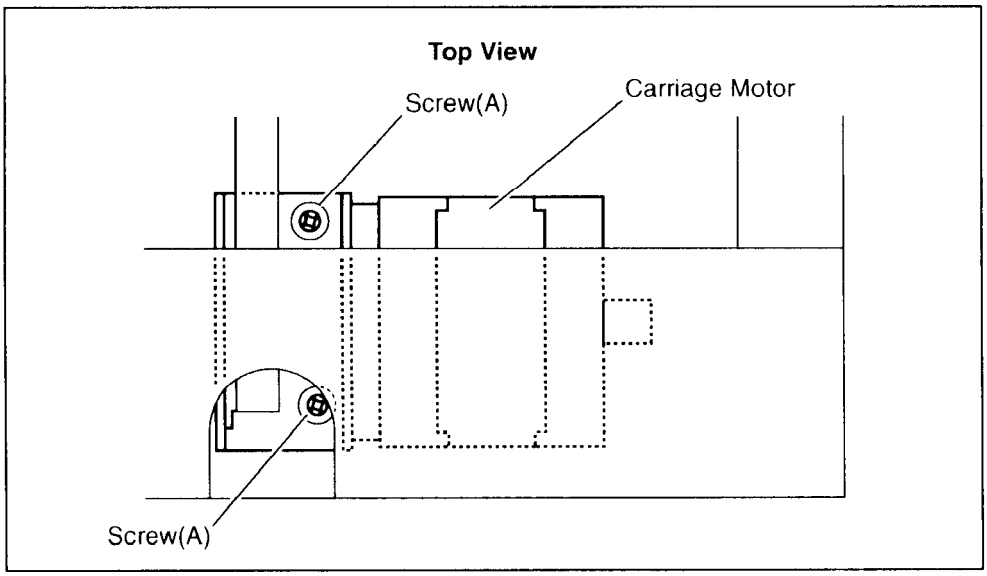


8.3.2. Carriage Motor

1. Remove Shield Plate.
(See 8.2.18.)

2. Remove 2 screws(A).

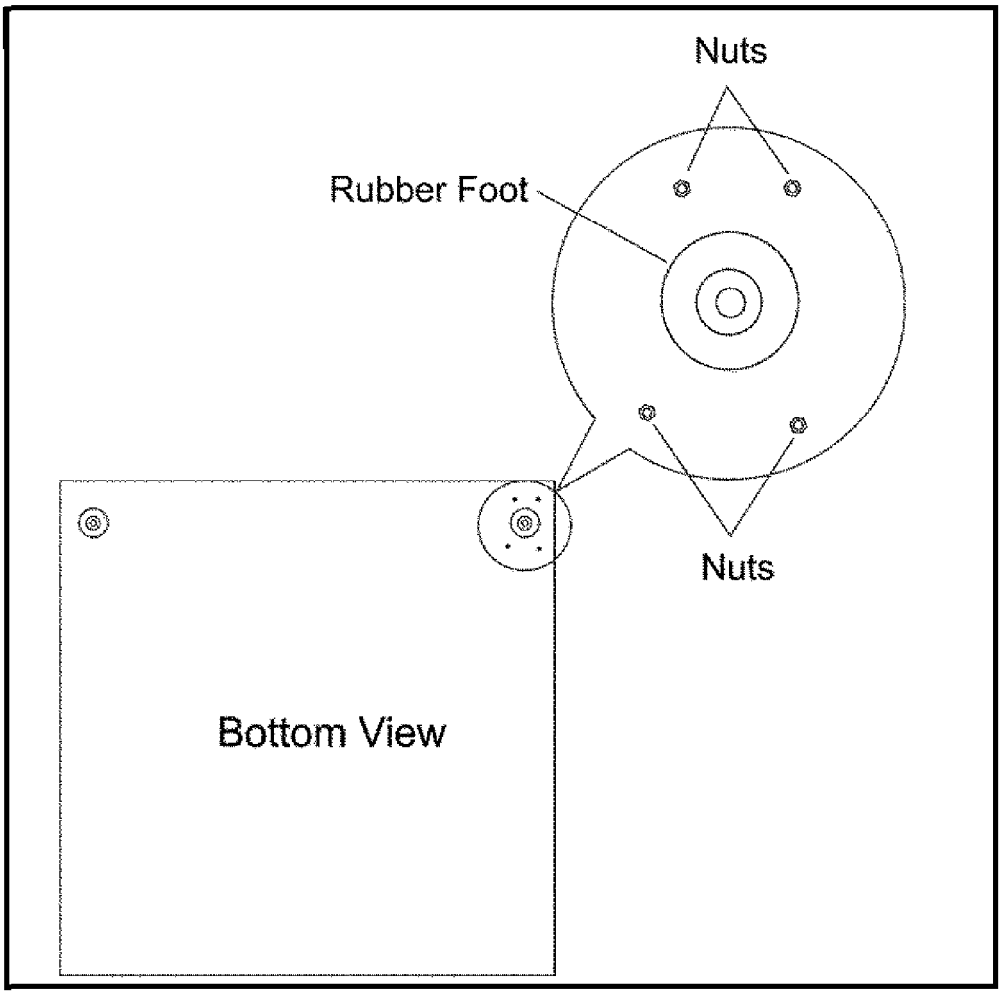
Fig. 8-25



3. Remove 4 nuts from the bottom side of this scanner.

4. Disconnect Carriage Motor Connector from CN361 on / DRIVE Board.

Fig. 8-26

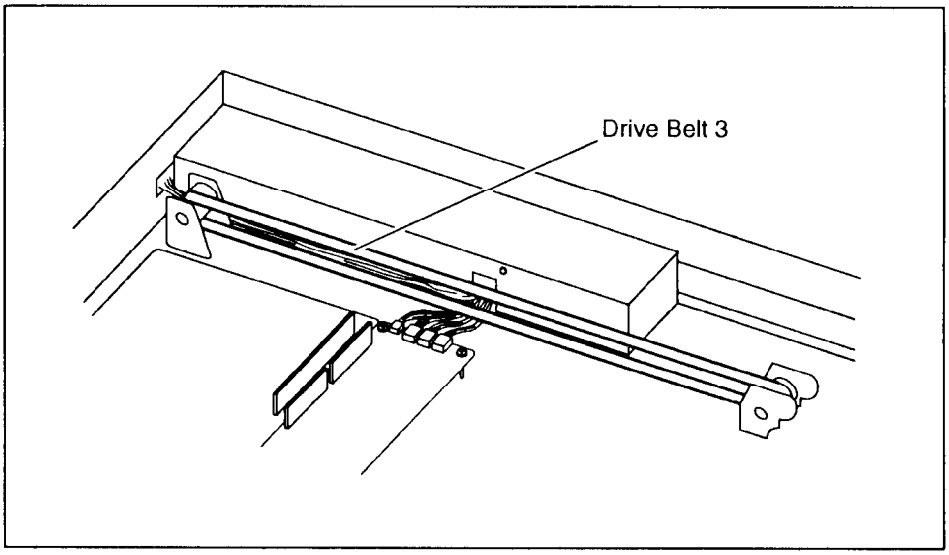


8.3.3. Drive Belt 3

1. Remove Carriage Motor.
(See 8.3.2.)

2. Remove Drive Belt 3, as shown in Fig. 8-27.

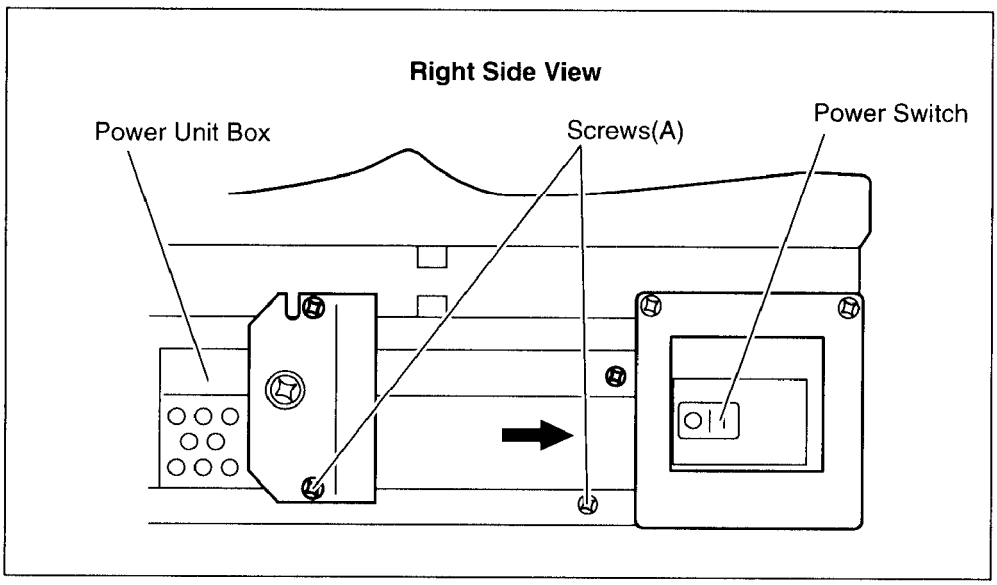
Fig. 8-27



8.3.4. Power Unit Box and Cover

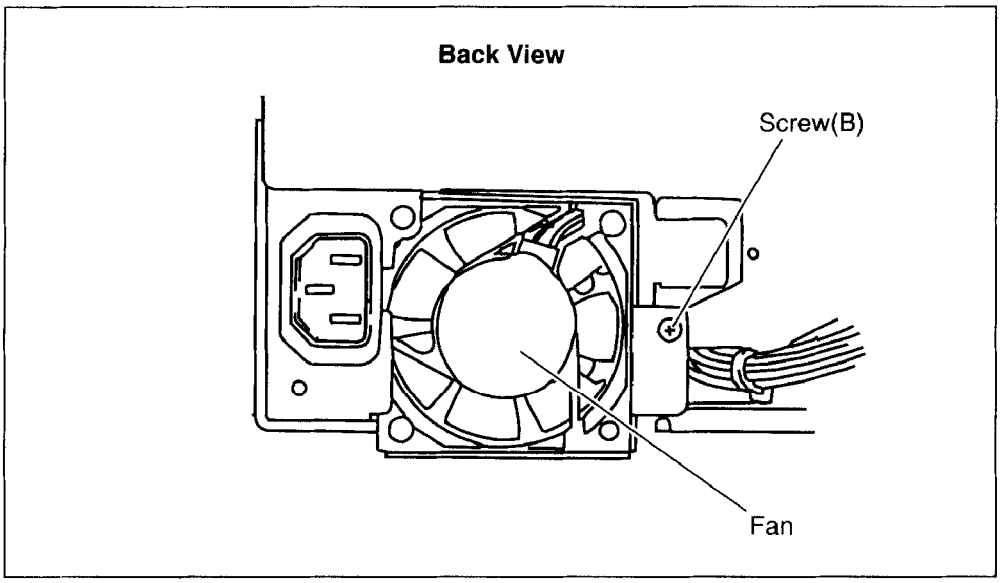
1. Remove Optical Carriage.
   (See 8.3.1.)
2. Remove 2 screws(A), as shown in Fig. 8-28.

Fig. 8-28



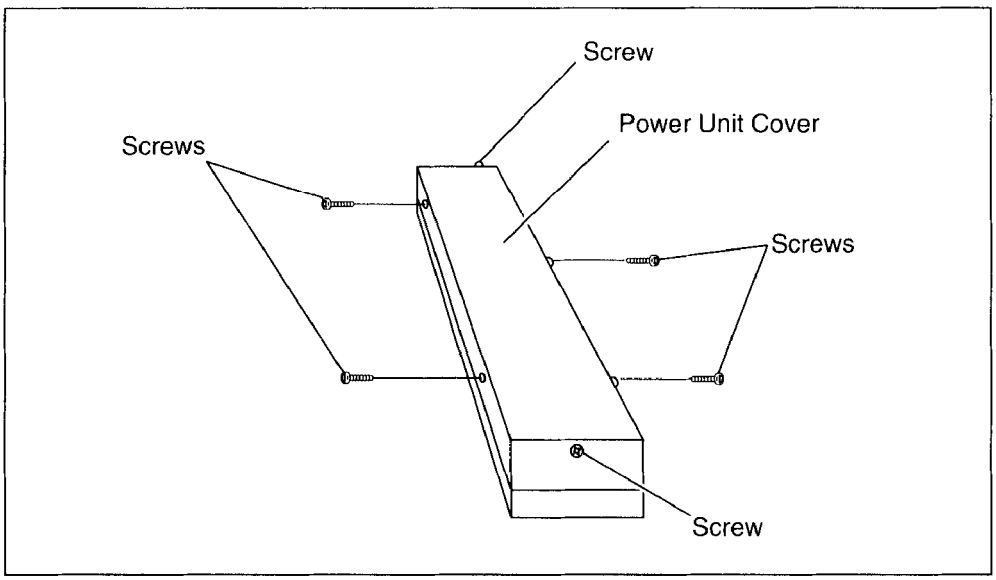
3. Remove screw(B), as shown in Fig. 8-29.
4. Remove a cable between POWER Board and MOTHER Board.
5. Slide Power Unit Box to the back side, according to the arrow, as shown in Fig. 8-28.

Fig. 8-29



6. Remove 6 screws and Power Unit Cover, as shown in Fig. 8-30.

Fig. 8-30



8.3.5. Lamp Module

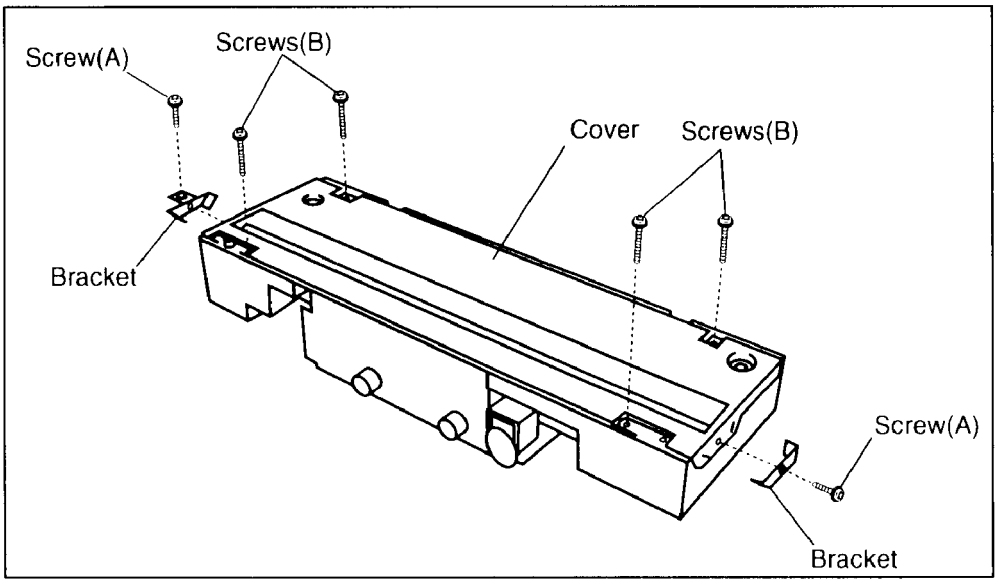
1. Remove Optical Carriage.
(See 8.3.1.)

2. Remove 2 screws(A) and brackets.

3. Remove 4 screws(B) and Cover.

4. Disconnect Lamp Module Connector.

Fig. 8-31



5. Remove 2 screws(C), and Lamp Module.

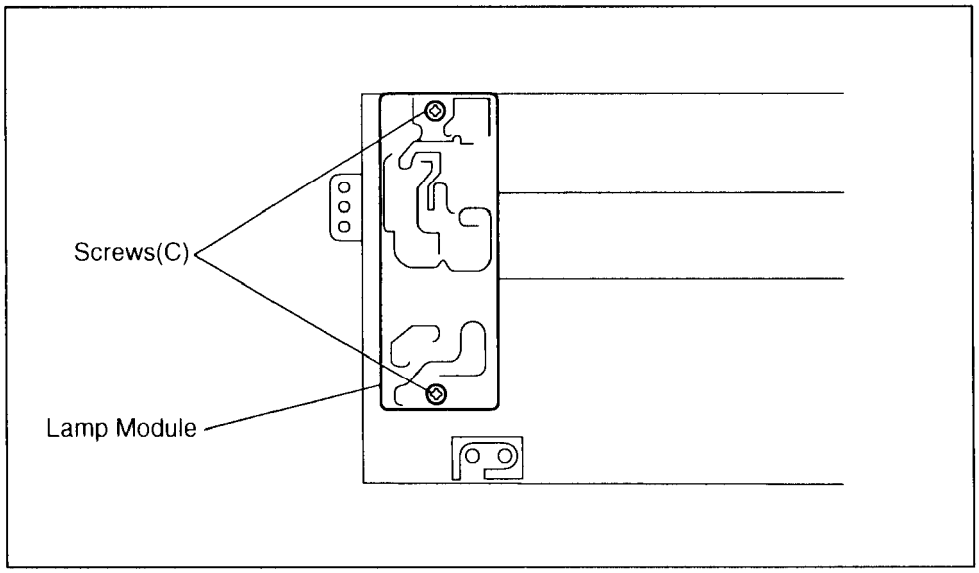
Note:

- Lamp is easy to break.

- Lamp becomes high temperature.

- Lamp module has high voltage part.

Fig. 8-32



8.3.6. Power Switch

1. Remove Power Unit Box and Cover.
(See 8.3.4.)

2. Remove Power Switch from the chassis. (Pull out while pressing

both sides of the locking section)

Fig. 8-33

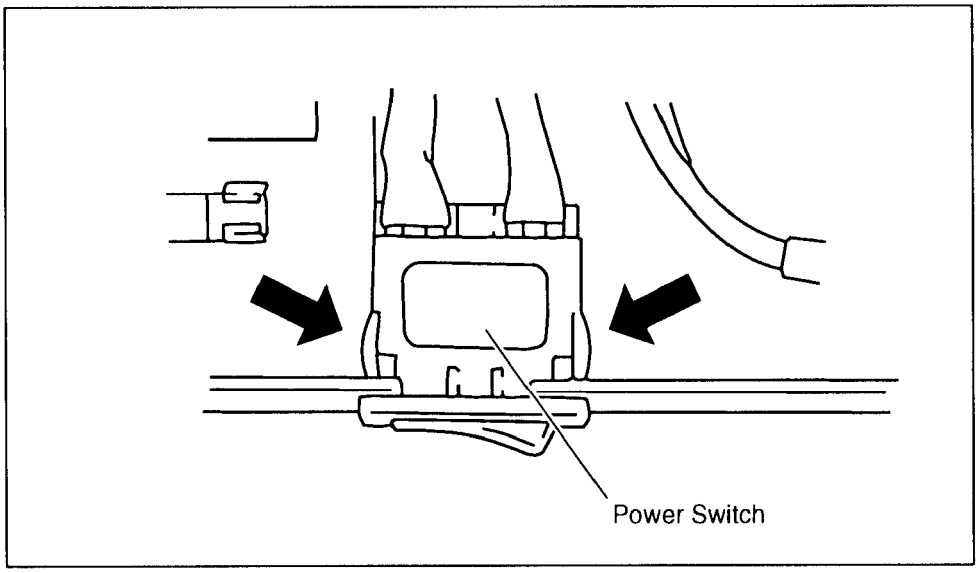
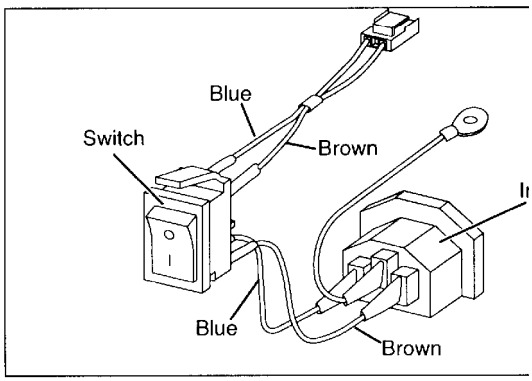


Fig. 8-34

Warning:

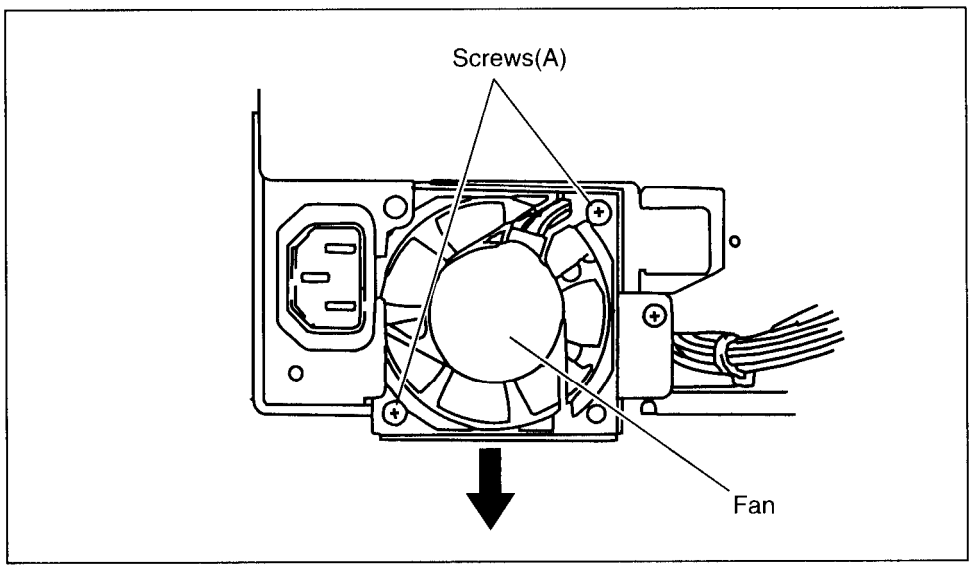
When replacing the Power Switch or Inlet, the wiring must be installed as illustrated.



8.3.7. Fan

1. Remove the Back Panel.
   (See 8.2.1.)
2. Remove Power Unit Box and Cover.
   (See 8.3.4.)
3. Disconnect the Fan connector.
4. Remove 2 screws(A), and Fan, as shown in Fig. 8-35.

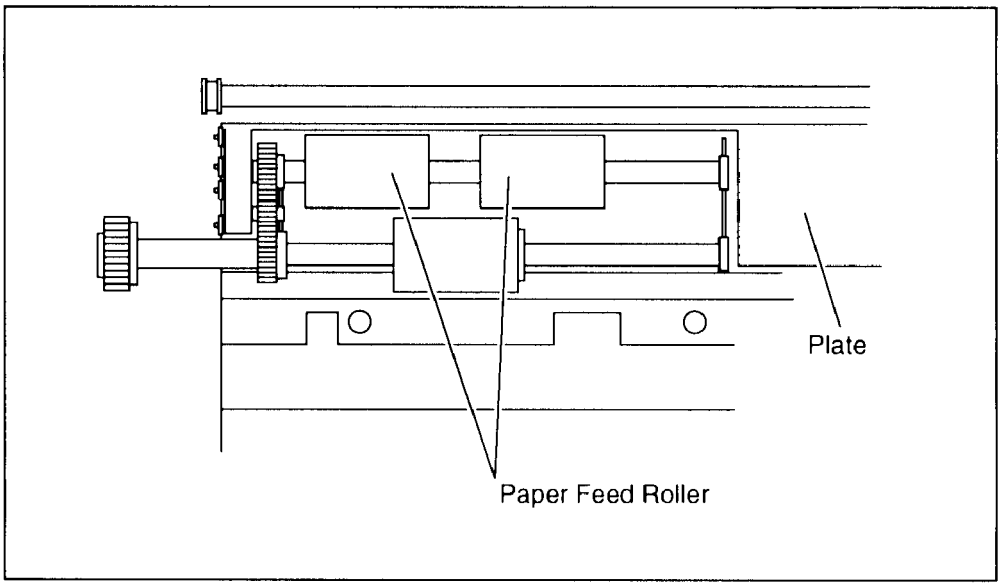
Fig. 8-35



8.3.8. Paper Feed Roller

1. Open ADF Door.
2. Open Plate.
3. Unlock the Paper Feed Roller from the notching hole of chassis and remove it.

Fig. 8-36

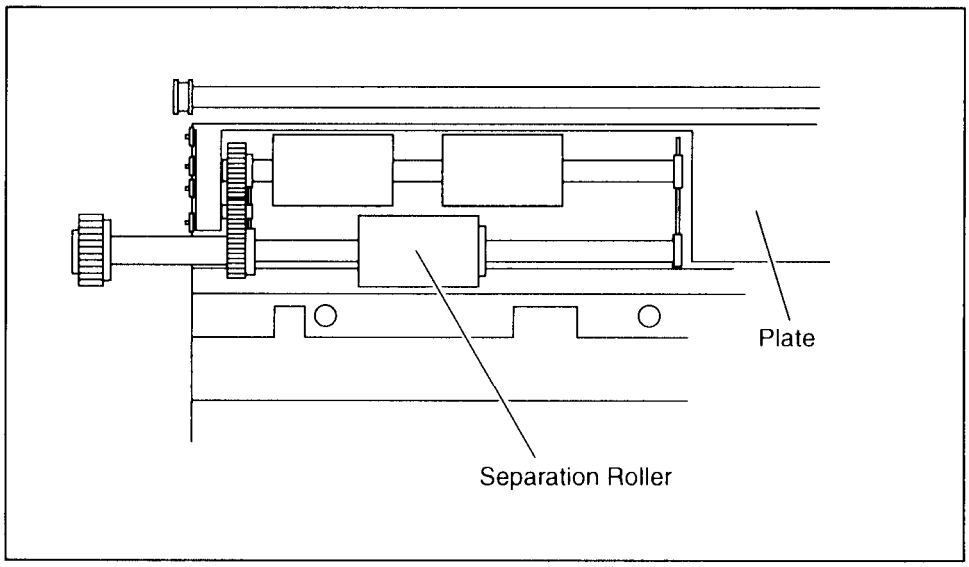


8.3.9. Separation Roller

1. Open ADF Door.
2. Open Plate.
3. Unlock the Separation Roller from the notching hole of chassis

and remove it.

Fig. 8-37



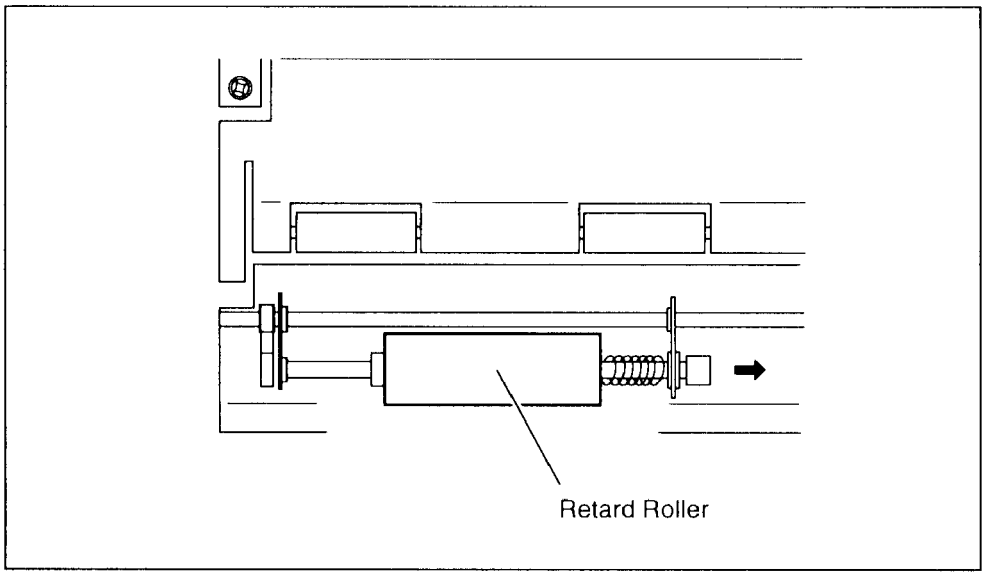
8.3.10. Retard Roller

1. Open ADF Door.

2. Open Plate.

3. Grip the Retard Roller and slide, as shown in Fig. 8-38.

Fig. 8-38



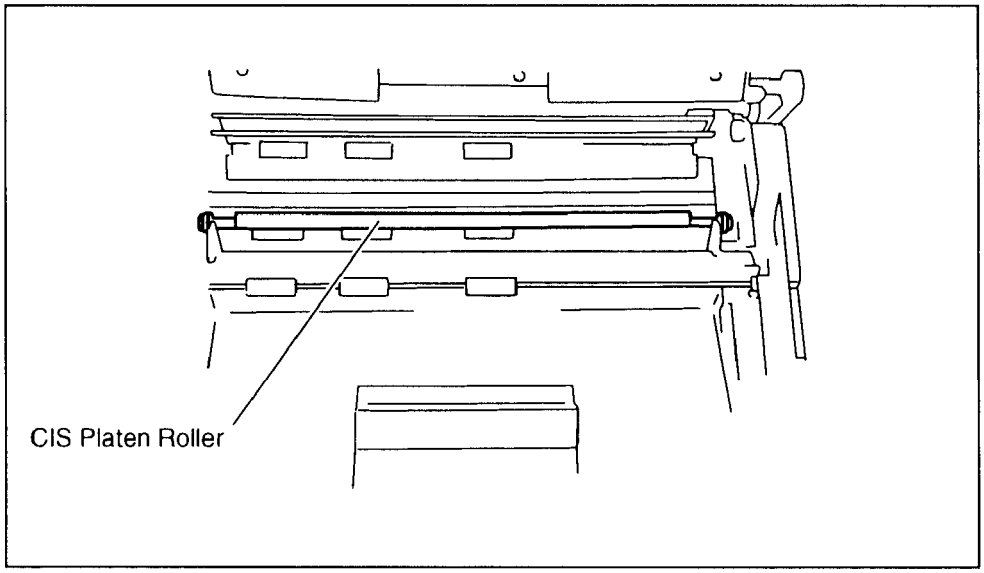
8.3.11. Sensor Roller

1. Open Front Door.

2. Unlock the Sensor Roller from the notching hole of chassis and

remove it.

Fig. 8-39

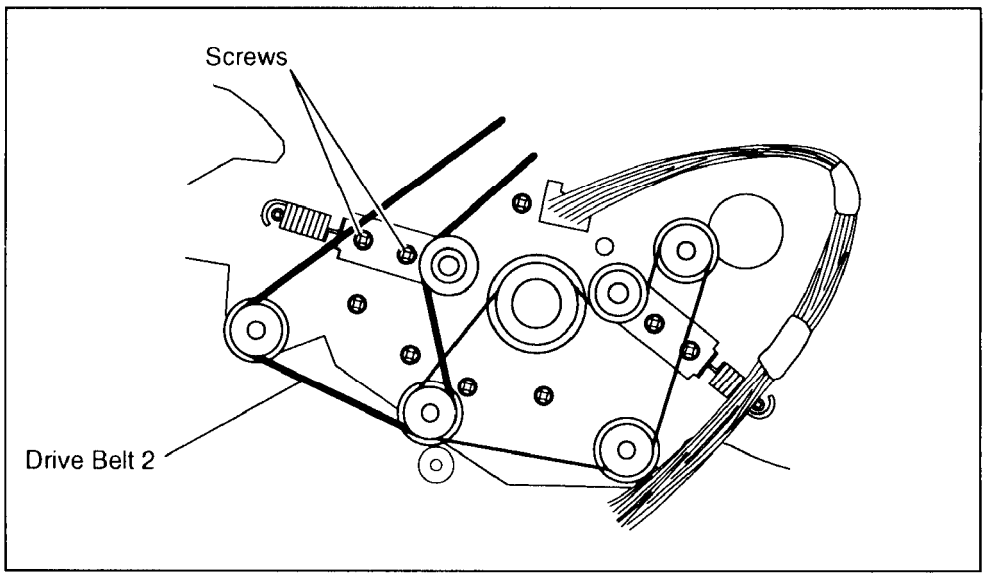


8.3.12. Drive Belt 2

1. Remove ADF Side Panel R.
(See 8.2.7.)

2. Loosen 2 screws and remove Drive Belt 2.

Fig. 8-40

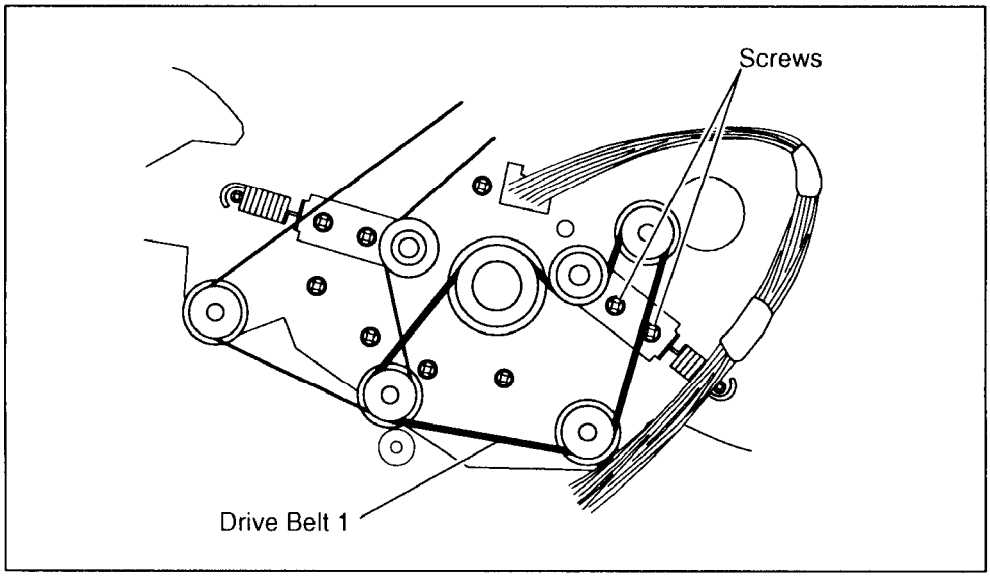


8.3.13. Drive Belt 1

1. Remove ADF Side Panel R.
(See 8.2.7.)

2. Remove Drive Belt 2.
   (See 8.3.12.)
3. Loosen 2 screws and remove Drive Belt 1.

Fig. 8-41



8.3.14. Conveyor Roller 1-5

1. Remove Inner Conveyor.
   (See 8.2.16.)
2. Remove ADF Side Panel R.
   (See 8.2.7.)
3. Unlock Conveyor Roller (1, 2) from the notching hole of the chassis and remove them.
4. Remove Exit Conveyor.
   (See 8.2.15.)
5. Unlock Conveyor Roller 3, 4, and 5 from the notching hole of the chassis and remove them.
   (Re-assemble Note)

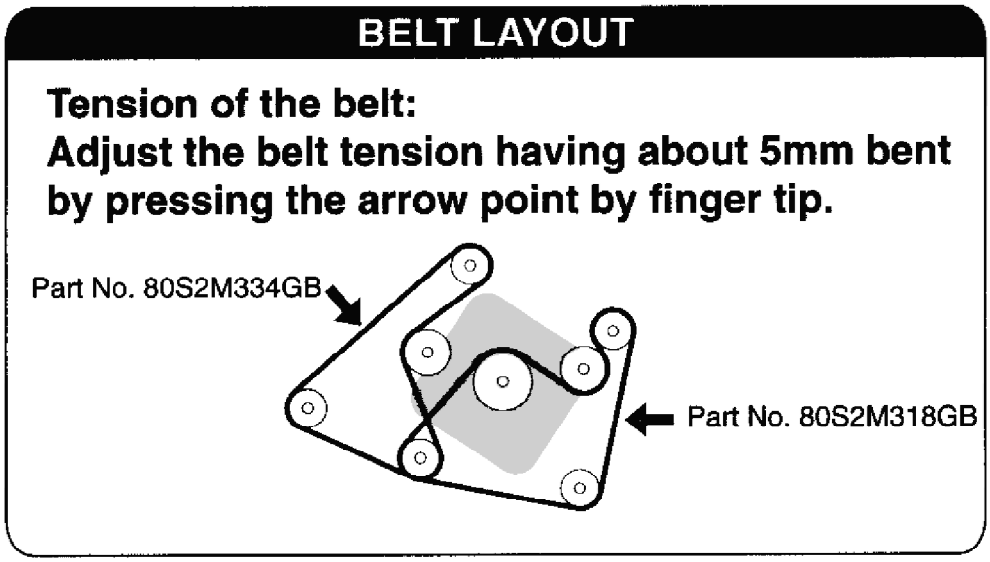
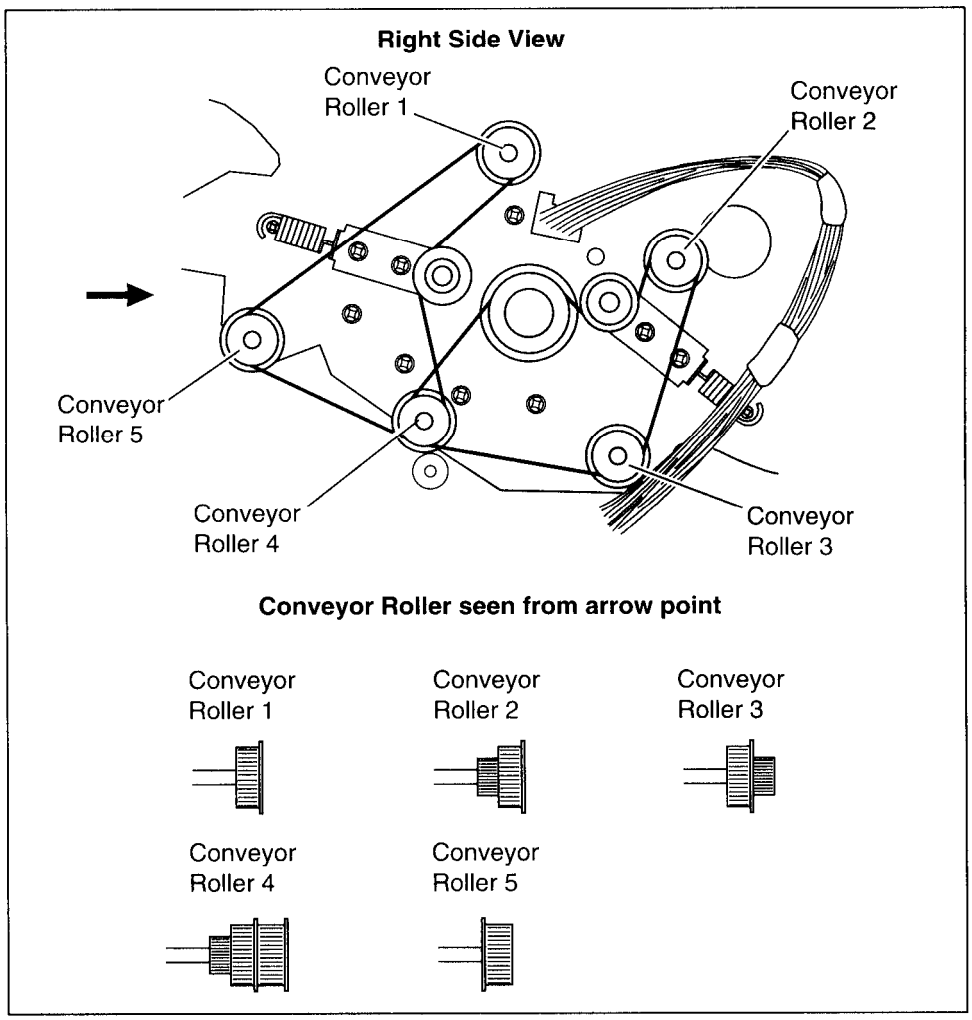


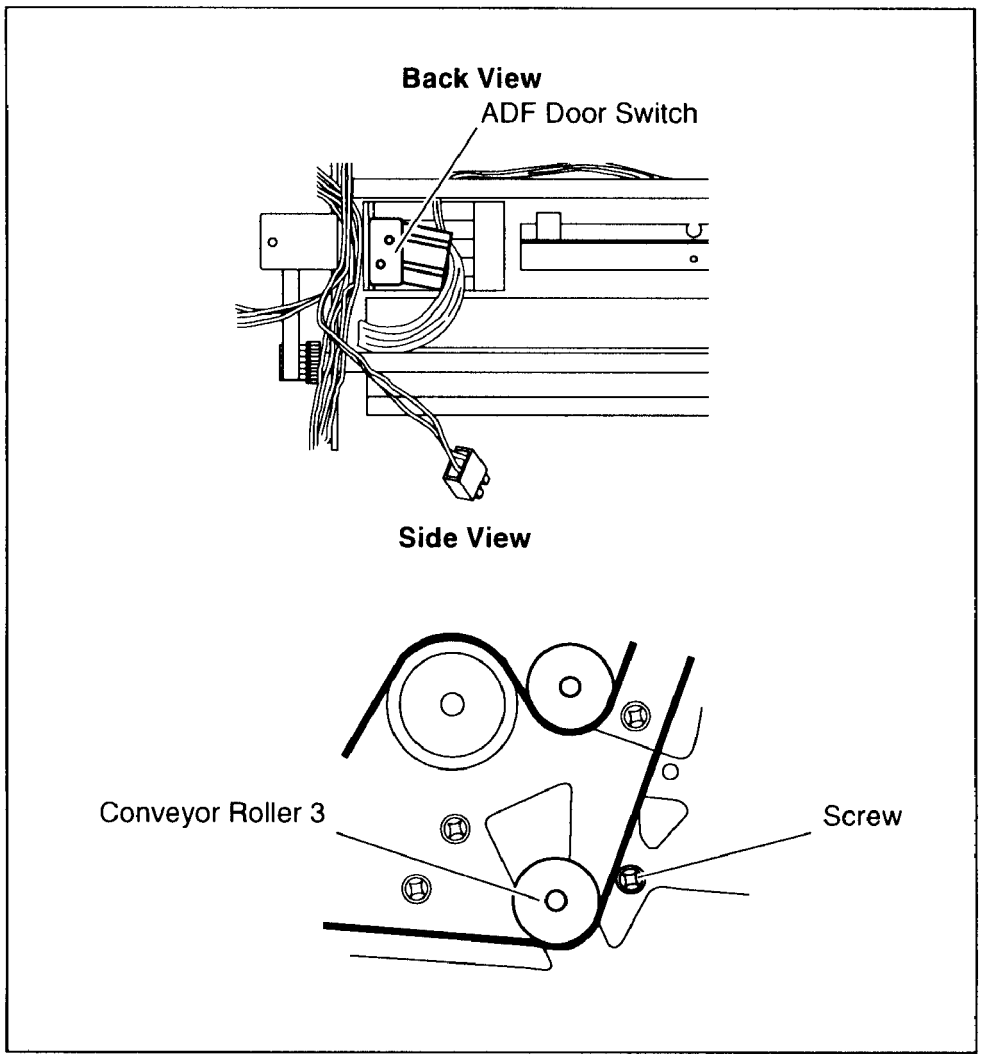
Fig. 8-42



8.3.15. ADF Door Switch

1. Remove Inner Conveyor.
   (See 8.2.16.)
2. Remove ADF Side Panel R.
   (See 8.2.7.)
3. Disconnect ADF Door Switch connector.
4. Remove screw and ADF Door Switch.

Fig. 8-43

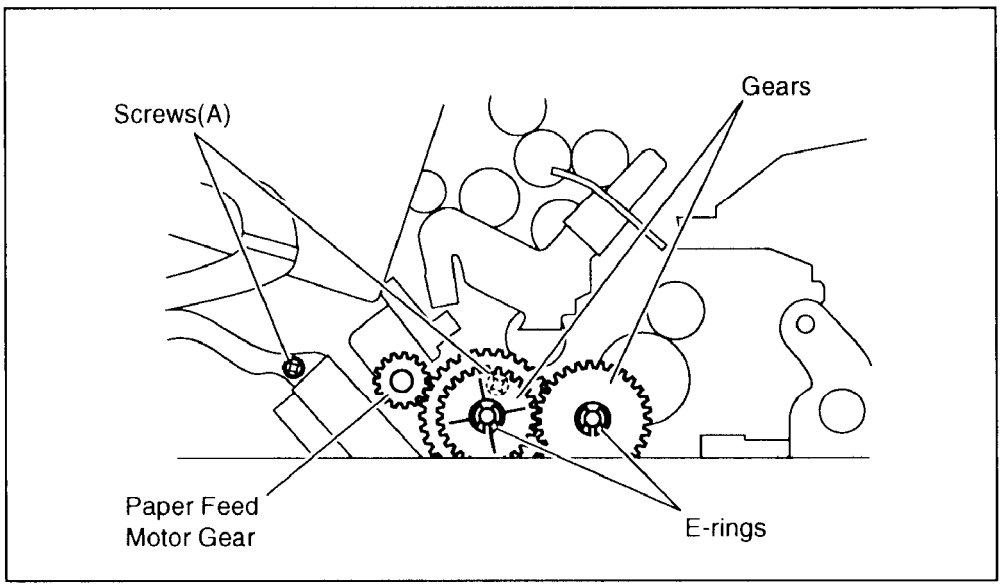


8.3.16. Paper Feed Motor

1. Remove Inner Conveyor.
   (See 8.2.16.)
2. Remove Conveyor Roller 1, 2.
   (See 8.3.14.-3)

3. Remove Exit Conveyor.
   (See 8.2.15.)
4. Remove RELAY (SIDE) Board.
   (See 8.4.19.)
5. Remove 2 E-rings and Gears.
6. Remove 2 screws(A) as shown in Fig. 8-44.
7. Remove SIZE LED Board.
   (See 8.4.11.)
8. Disconnect Paper Feed Motor connector and Paper Feed Motor.

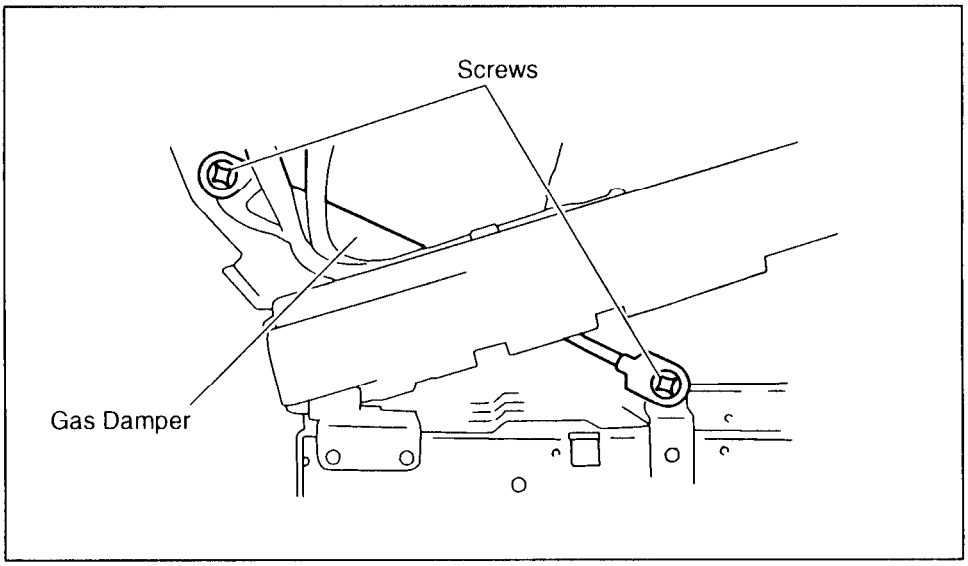
Fig. 8-44



8.3.17. Gas Damper

1. Remove ADF Side Panel L.
   (See 8.2.6.)
2. Open Document Cover.
3. Remove 2 screws and Gas Damper.

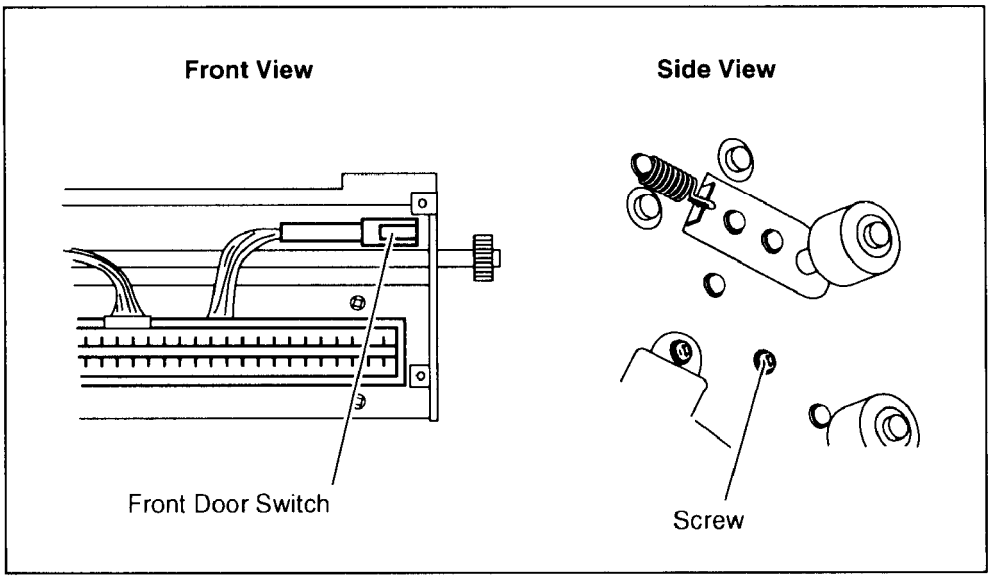
Fig. 8-45



8.3.18. Front Door Switch

1. Open Front Door.
2. Remove Exit Conveyor.
   (See 8.2.15.)
3. Disconnect Front Door Switch connector.
4. Remove screw and Front Door Switch.

Fig. 8-46

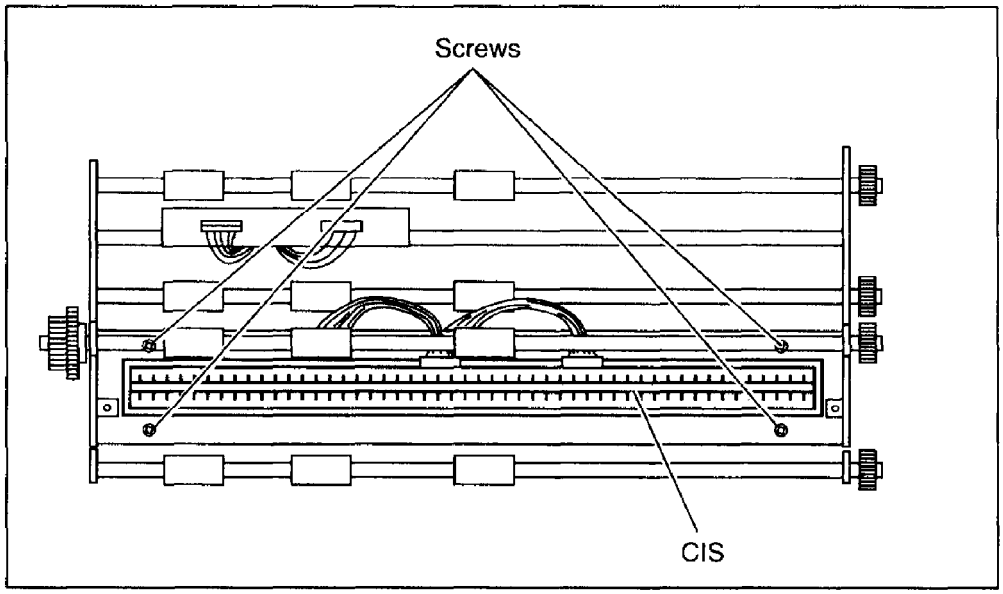


8.3.19. CIS

1. Remove Sensor Plate.
   (See 8.2.14.)

2. Remove Exit Conveyor.
   (See 8.2.15.)
3. Remove Conveyor Rollers 3 and 4.
   (See 8.3.14.)
4. Remove 4 screws and CIS.
5. Disconnect CIS connector.

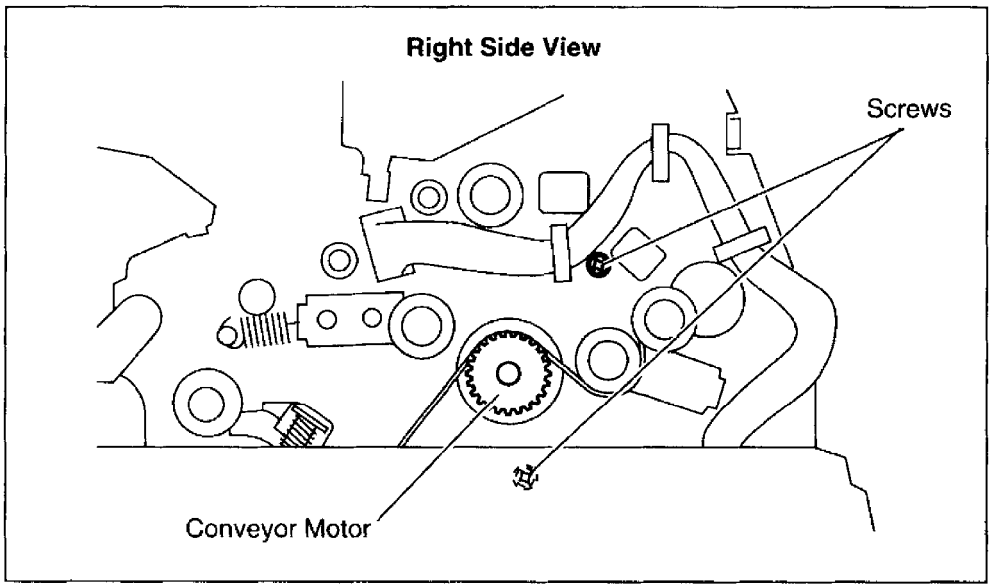
Fig. 8-47



8.3.20. Conveyor Motor

1. Remove Inner Conveyor.
   (See 8.2.16.)
2. Remove Exit Conveyor.
   (See 8.2.15.)
3. Remove ADF Side Panel R.
   (See 8.2.7.)
4. Remove Conveyor Roller 2.
   (See 8.3.14.)
5. Remove 2 screws.
6. Disconnect Conveyor Motor connector, and remove / Conveyor Motor.

Fig. 8-48



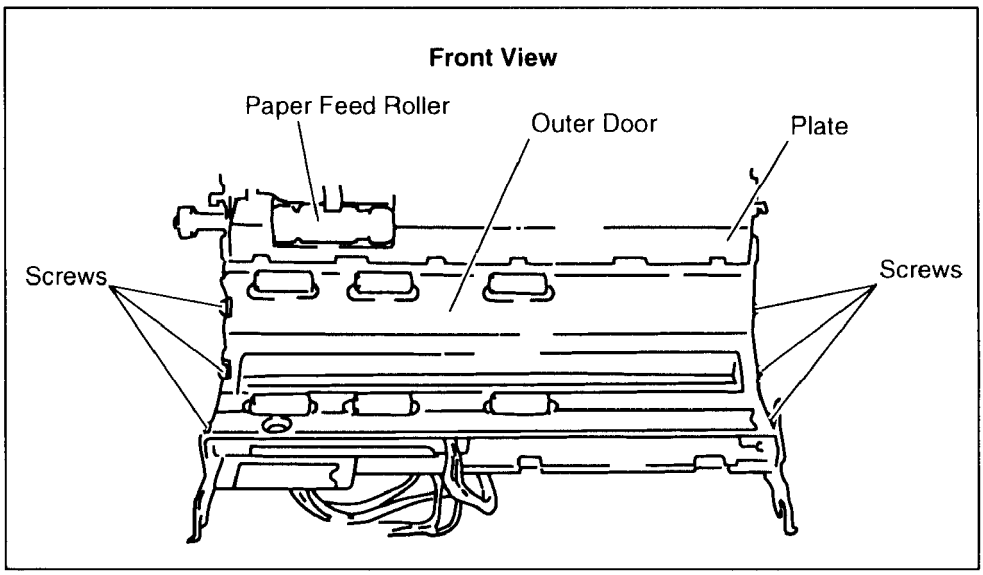
8.3.21. Outer Door

1. Open the ADF Door.

2. Remove the Plate.

3. Remove 6 screws and Outer Door.

Fig. 8-49



8.4. Circuit Board Assemblies

8.4.1. MAIN CONTROL Board

1. Remove Back Panel.
(See 8.2.1.)

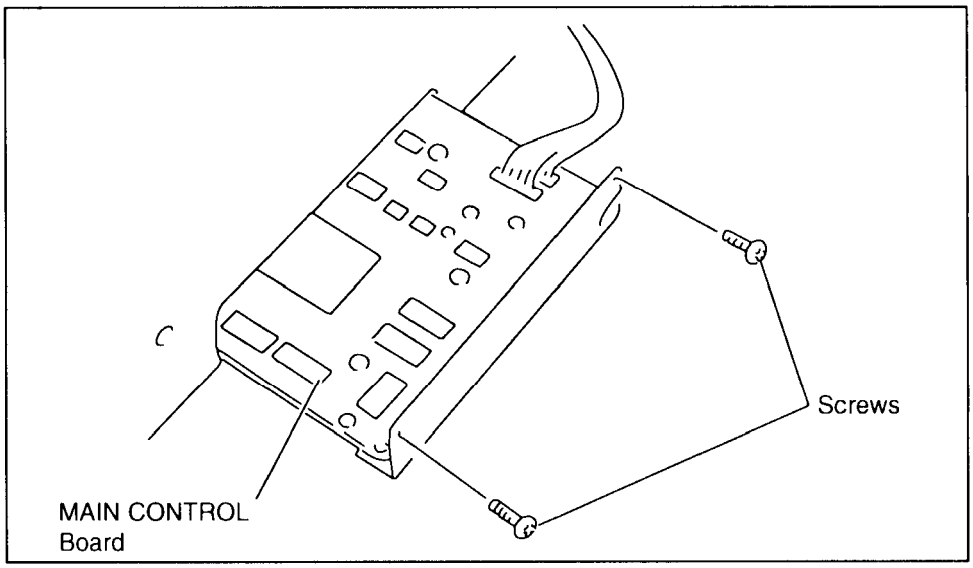
2. Remove 2 screws and MAIN CONTROL Board.

3. Disconnect all connectors from/to MAIN CONTROL Board.

Note:

See SECTION 11 BLOCK DIAGRAM for connections.

Fig. 8-50

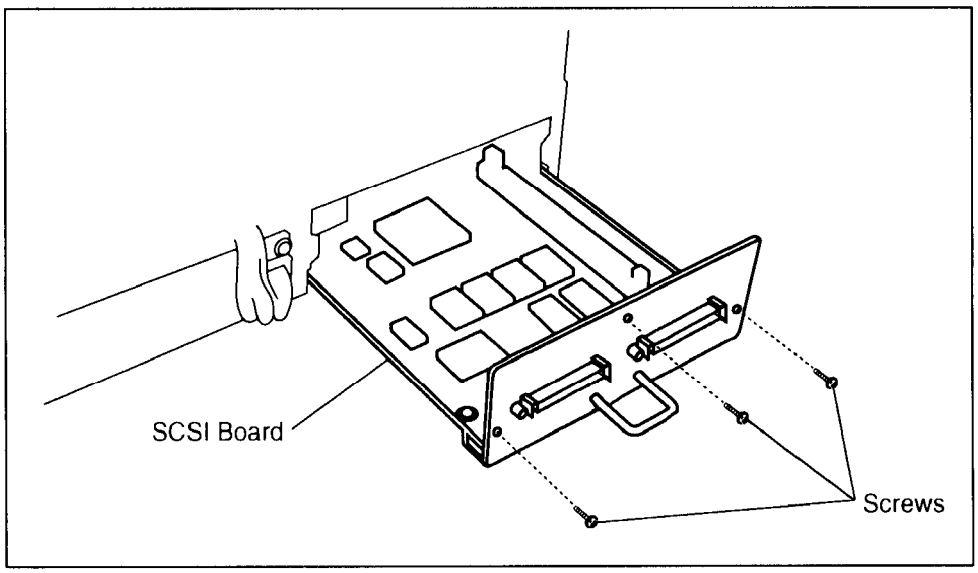


8.4.2. SCSI Board

1. Remove 3 screws.

2. Pull out SCSI Board.

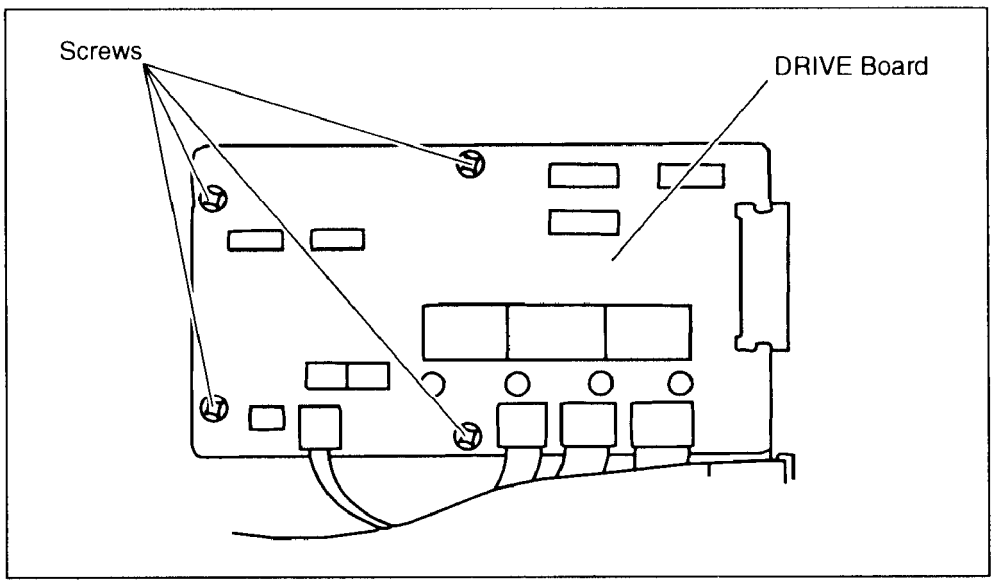
Fig. 8-51



8.4.3. DRIVE Board

1. Remove FB Glass Base.
   (See 8.2.11.)
2. Remove Optical Carriage.
   (See 8.3.1.)
3. Remove Shield Plate.
   (See 8.2.18.)
4. Remove 4 screws and DRIVE Board.
5. Disconnect all connectors from/to DRIVE Board.
   Note:
   See SECTION 11 BLOCK DIAGRAM for connections.

Fig. 8-52

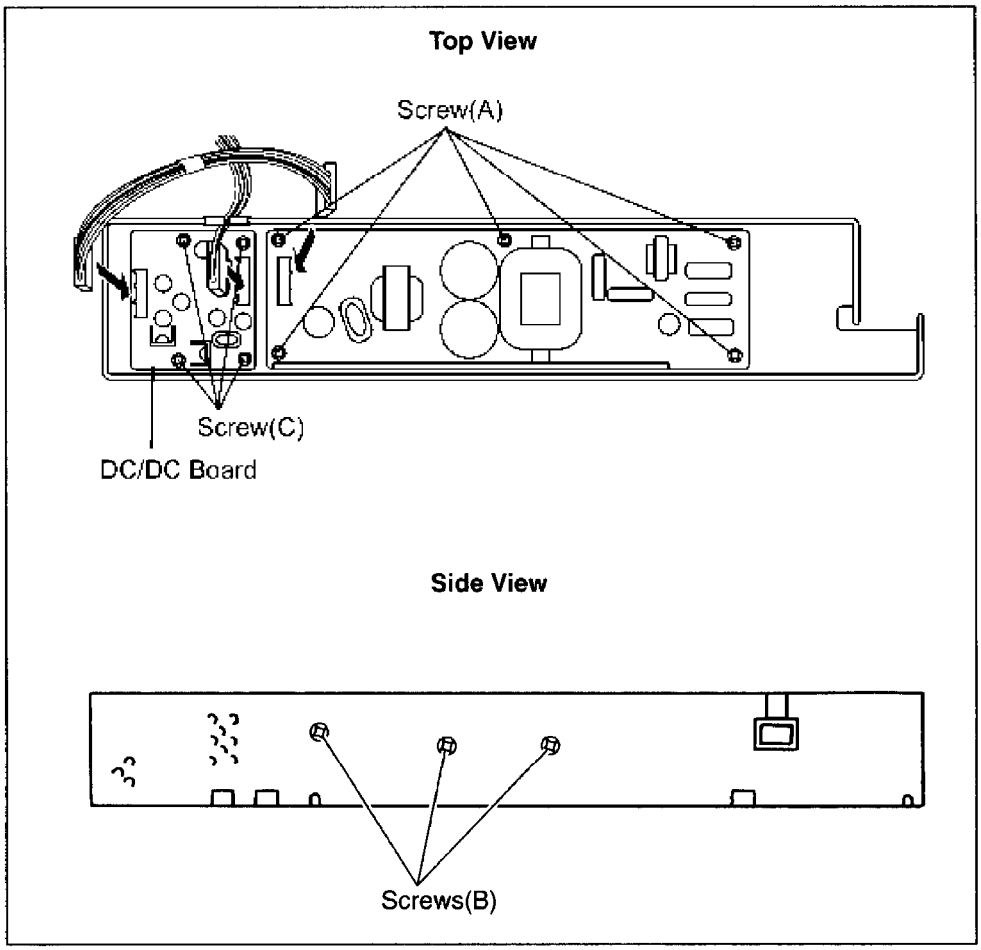


8.4.4. POWER Board & DC/DC Board

1. Remove FB Glass Base.
   (See 8.2.11.)
2. Remove Power Unit Box and Cover.
   (See 8.3.4.)
3. Remove 5 screws(A) and 3 screws(B).
4. Disconnect all connectors from/to POWER Board and remove POWER Board.
   Note:
   See SECTION 11 BLOCK DIAGRAM for connections.

5. Remove 4 screws(C) on DC/DC Board.
6. Disconnect connector from POWER Board, and remove DC/DC Board.

Fig. 8-53



8.4.5. MOTHER Board

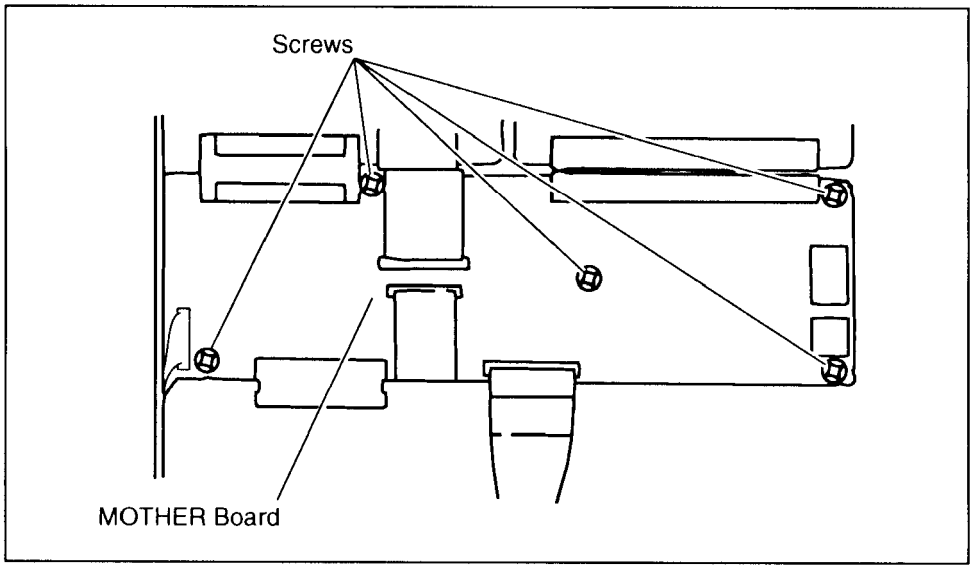
1. Remove FB Glass Base.
   (See 8.2.11.)
2. Remove Optical Carriage.
   (See 8.3.1.)
3. Remove Shield Plate.
   (See 8.2.18.)
4. Remove DRIVE Board.
   (See 8.4.3.)
5. Remove 5 screws and MOTHER Board.

6. Disconnect all connectors from/to MOTHER Board.

Note:

See SECTION 11 BLOCK DIAGRAM for connections.

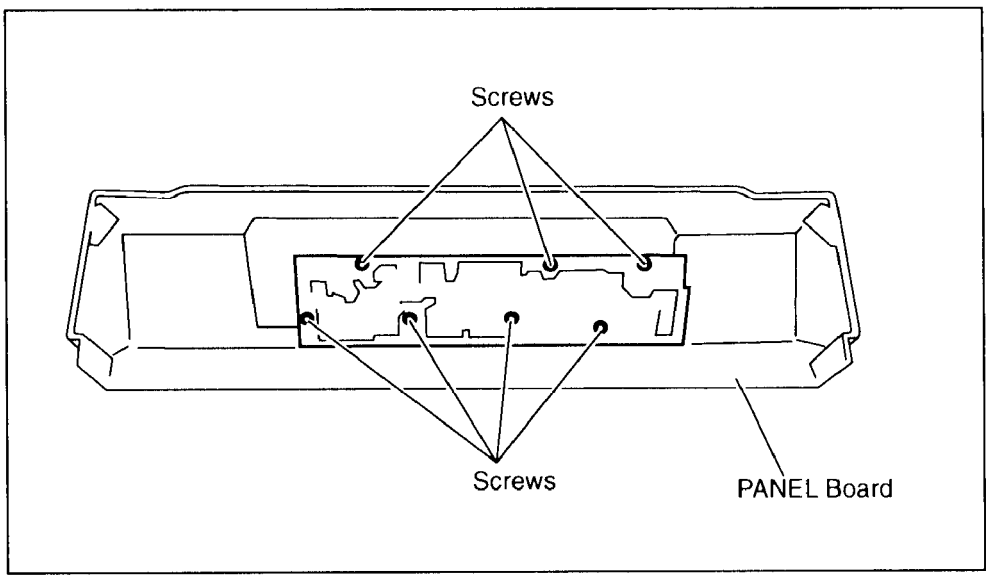
Fig. 8-54



8.4.6. PANEL Board

1. Remove Front Panel.
   (See 8.2.4.)
2. Remove 7 screws and PANEL Board.
3. Disconnect CN536.

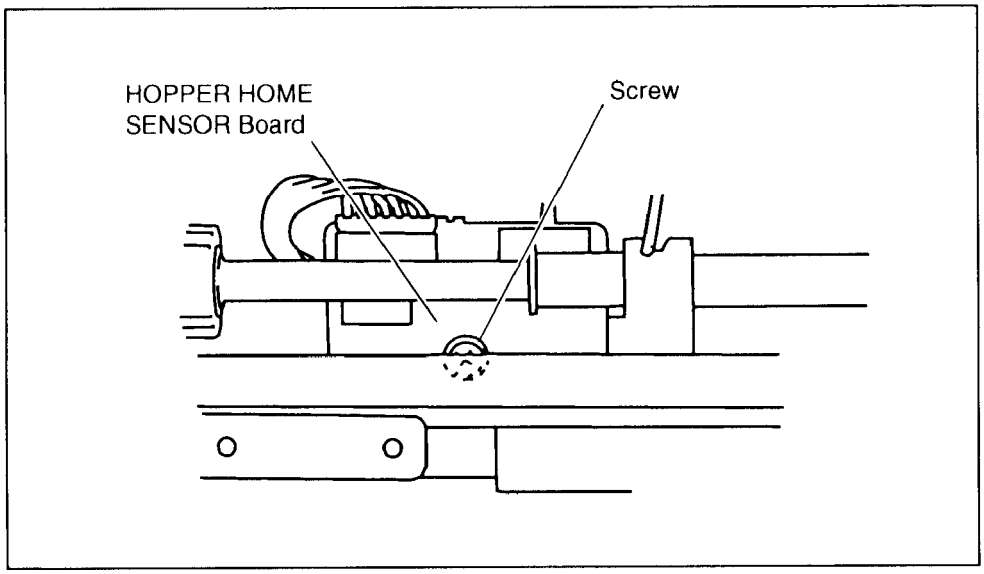
Fig. 8-55



8.4.7. HOPPER HOME SENSOR Board

1. Remove Exit Conveyor.
   (See 8.2.15.)
2. Remove screw and HOPPER HOME SENSOR Board.
3. Disconnect CN529 and CN530.

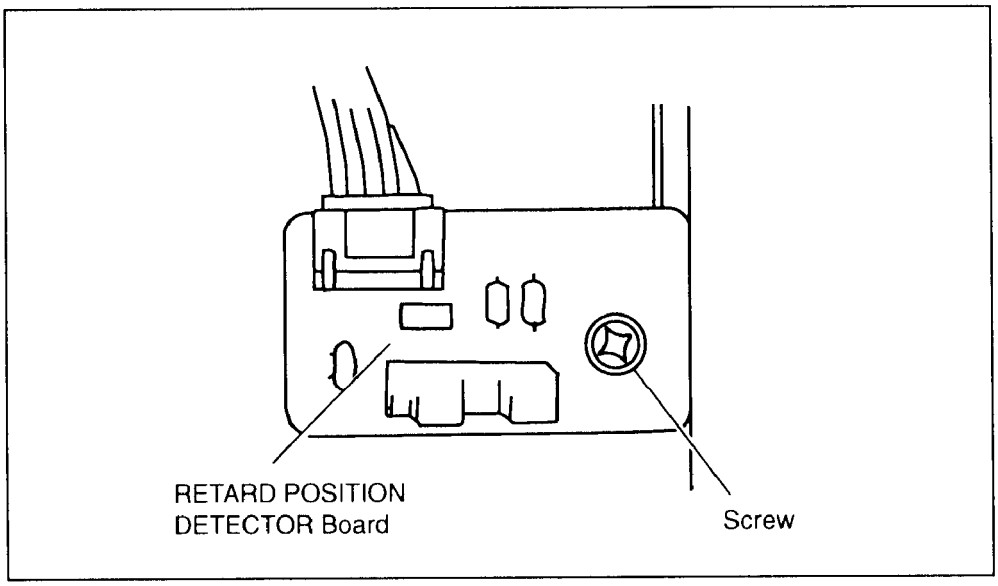
Fig. 8-56



8.4.8. RETARD POSITION DETECTOR Board

1. Remove ADF Side Panel L.
   (See 8.2.6.)
2. Remove screw and RETARD POSITION DETECTOR Board.
3. Disconnect CN517.

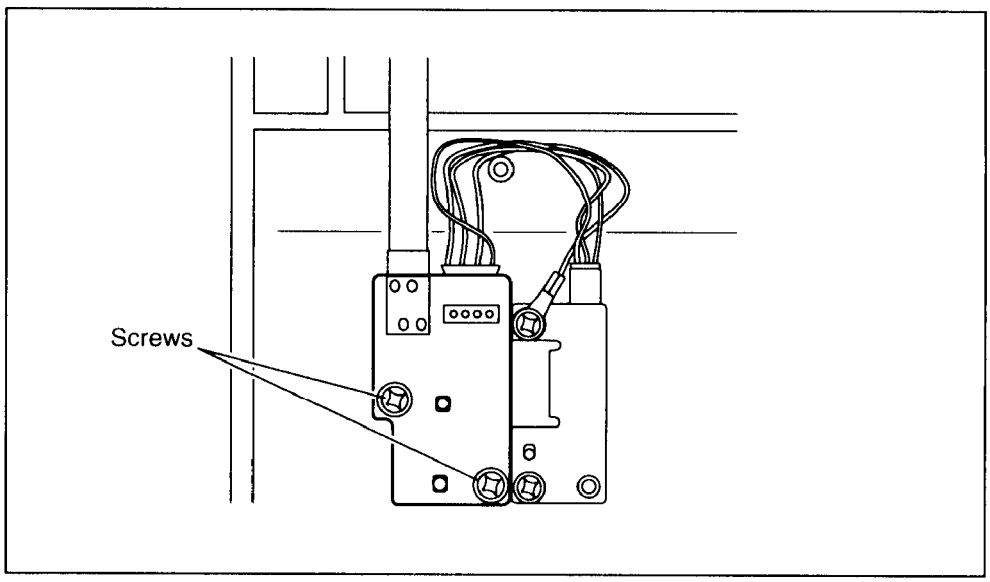
Fig. 8-57



8.4.9. DOCUMENT DETECTOR Board

1. Remove Hopper Tray.
   (See 8.2.10.)
2. Remove 2 screws and DOCUMENT DETECTOR Board.
3. Disconnect CN537 and CN538.

Fig. 8-58

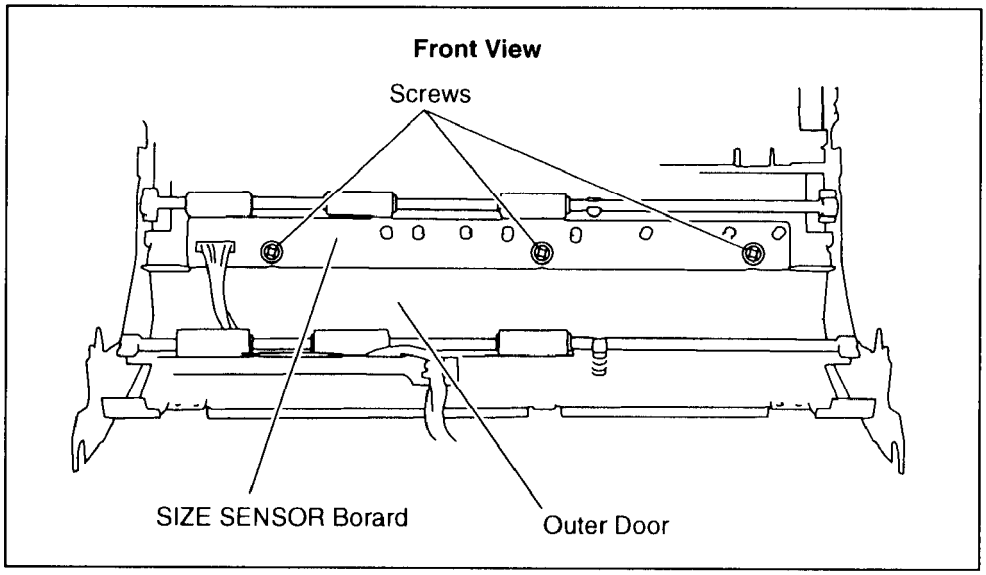


8.4.10. SIZE SENSOR Board

1. Remove Outer Door.
   (See 8.3.21.)
2. Remove 3 screws and SIZE SENSOR Board.

3. Disconnect CN521.

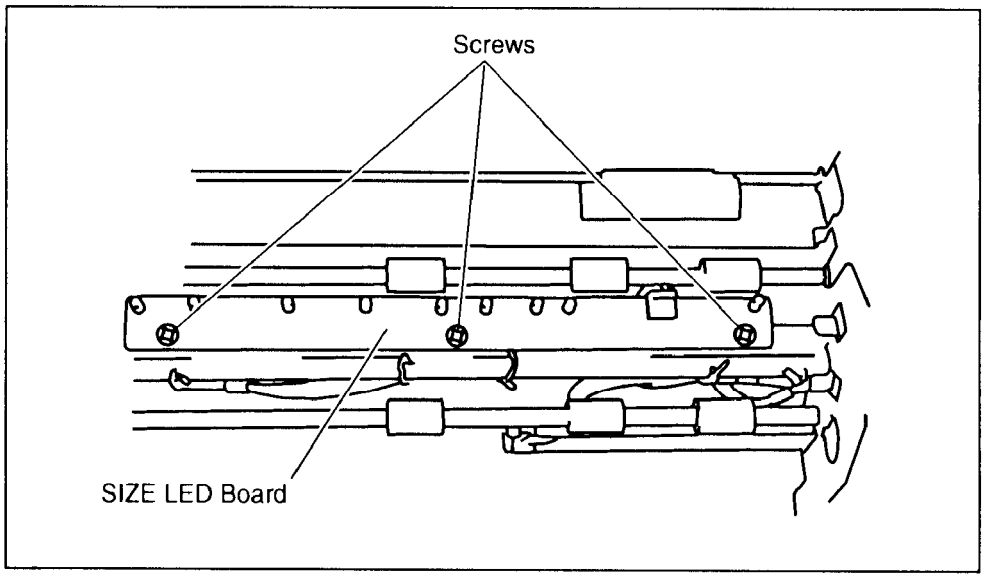
Fig. 8-59



8.4.11. SIZE LED Board

1. Remove Back Cover.
   (See 8.2.8.)
2. Remove Inner Conveyor.
   (See 8.2.16.)
3. Remove 3 screws and SIZE LED Board.
4. Disconnect CN524.

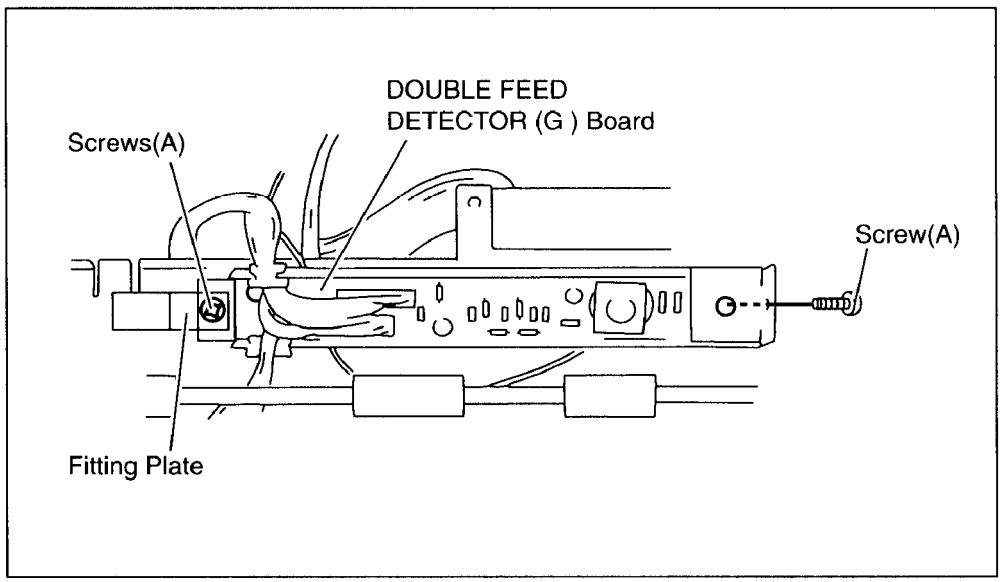
Fig. 8-60



8.4.12. DOUBLE FEED DETECTOR (G) Board

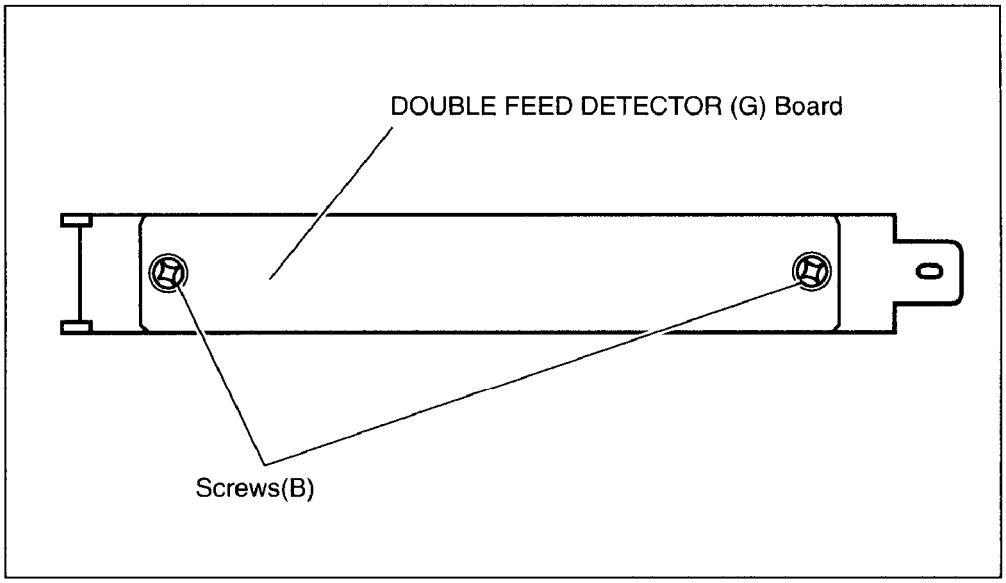
1. **Remove Outer Door.**
   (See 8.3.21.)
2. **Remove 2 screws(A) from Fitting Plate with DOUBLE FEED DETECTOR (G) Board.**
3. **Disconnect CN534.**

Fig. 8-61



4. **Remove 2 screws(B) and DOUBLE FEED DETECTOR (G) Board.**

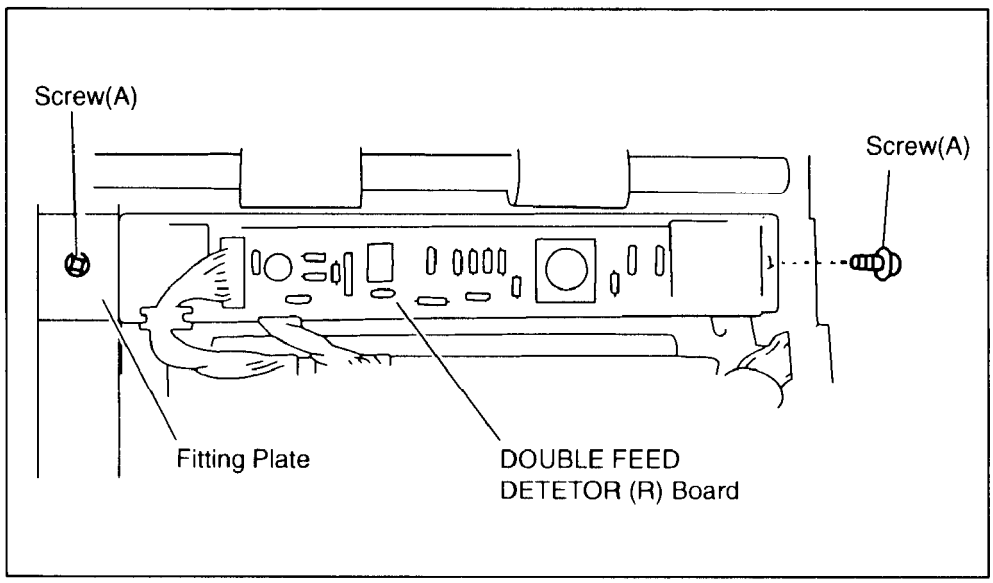
Fig. 8-62



8.4.13. DOUBLE FEED DETECTOR (R) Board

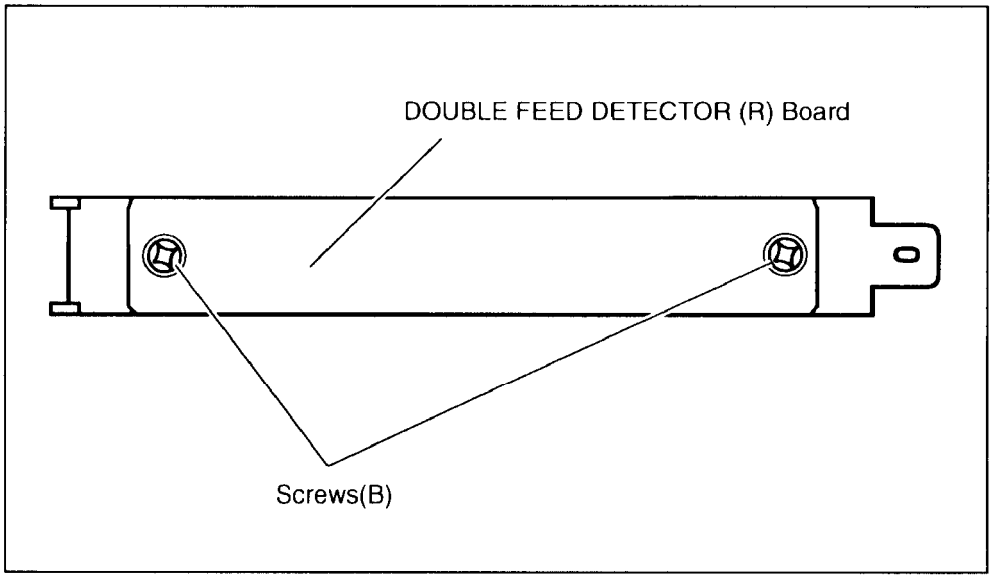
1. Remove Inner Conveyor.
   (See 8.2.16.)
2. Remove 2 screws(A) from Fitting Plate with DOUBLE FEED DETECTOR (R) Board.
3. Disconnect CN535.

Fig. 8-63



4. Remove 2 screws(B) and DOUBLE FEED DETECTOR (R) Board.

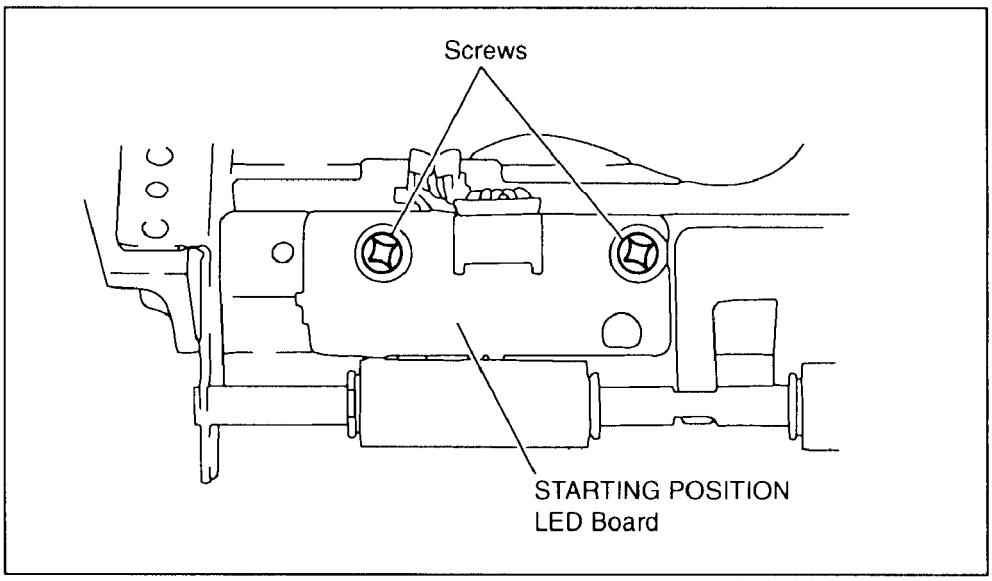
Fig. 8-64



8.4.14. STARTING POSITION LED Board

1. Remove Lower Conveyor 2.
   (See 8.2.17.)
2. Remove 2 screws and STARTING POSITION LED Board.
3. Disconnect CN518.

Fig. 8-65



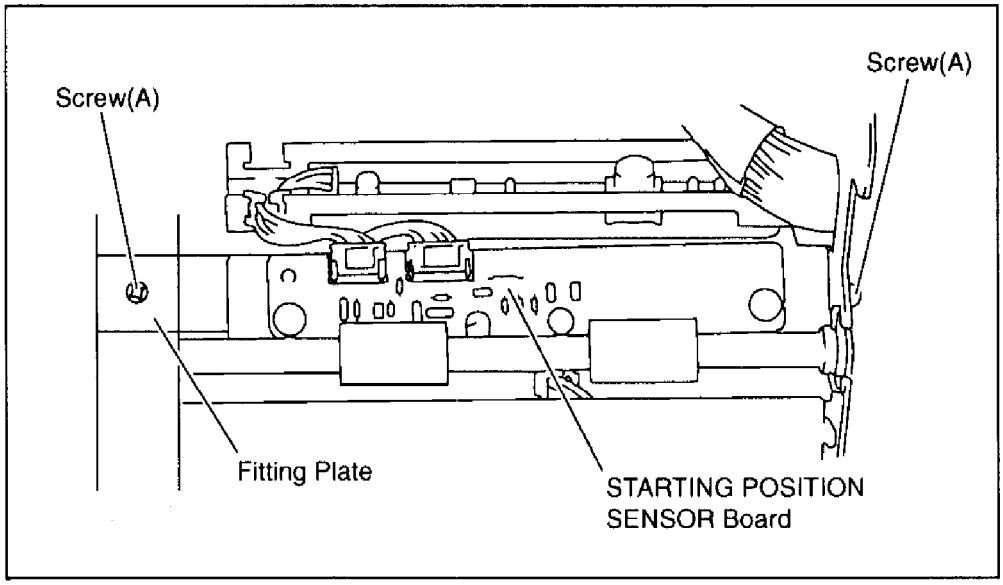
8.4.15. STARTING POSITION SENSOR Board

1. Remove Paper Feed Motor.
   (See 8.3.16.)
2. Remove 2 screws(A) from Fitting Plate with STARTING POSITION

SENSOR Board.

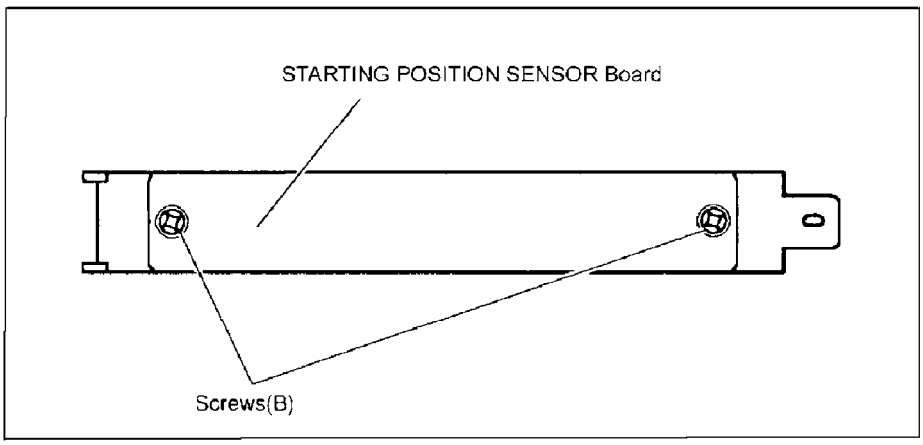
3. Disconnect CN519 and CN520.

Fig. 8-66



4. Remove 2 screws(B) and STARTING POSITION SENSOR Board.

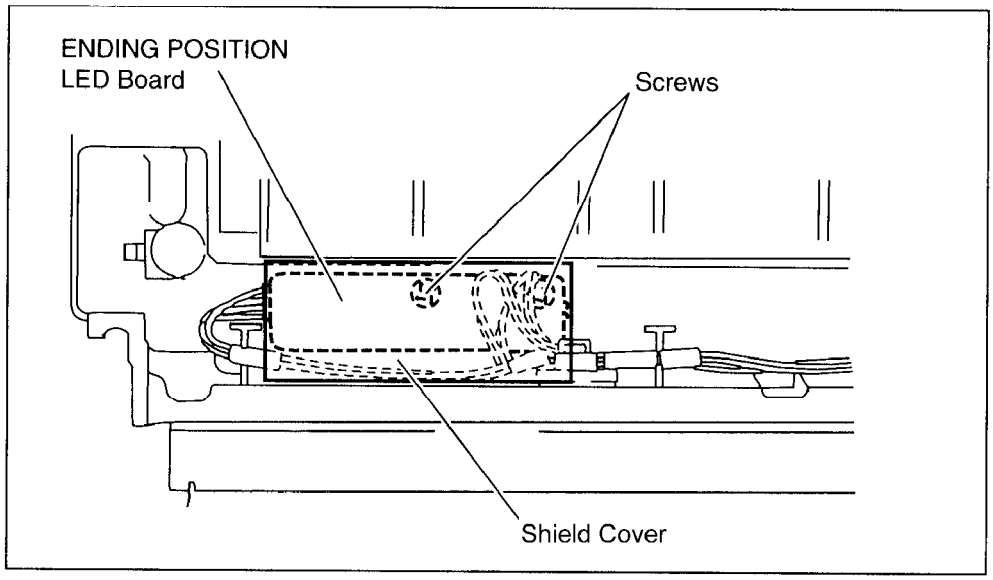
Fig. 8-67



8.4.16. ENDING POSITION LED Board

1. Open Document Cover.
2. Remove Flatbed sheet.
   (See 8.2.5.)
3. Remove 2 screws and ENDING POSITION LED Board.
4. Disconnect CN525 and CN526.

Fig. 8-68



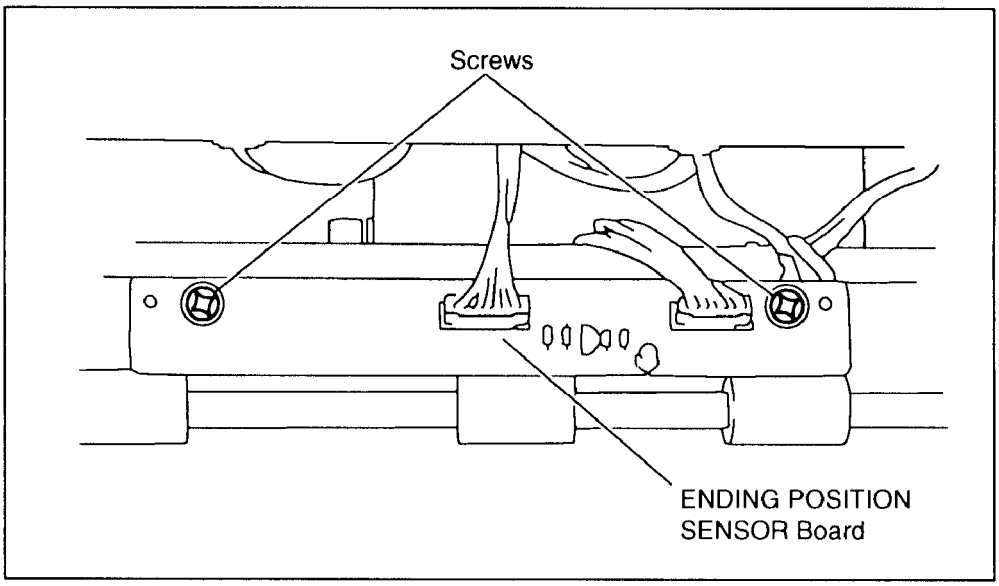
8.4.17. ENDING POSITION SENSOR Board

1. Remove Exit Conveyor.
(See 8.2.15.)

2. Remove 2 screws and ENDING POSITION SENSOR / Board.

3. Disconnect CN531 and CN532.

Fig. 8-69



8.4.18. RELAY (BACK) Board

1. Remove Back Door.

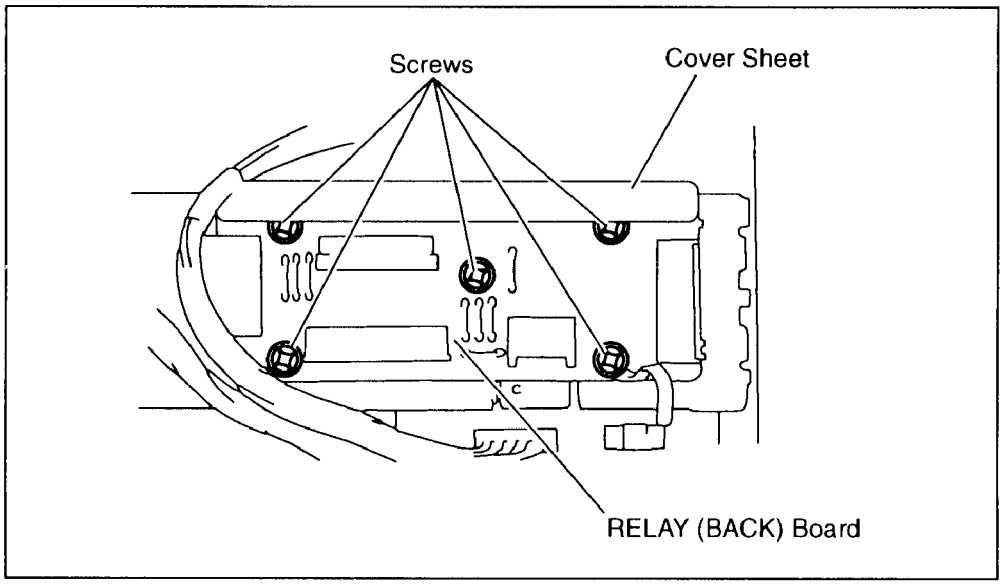
(See 8.2.9.)

2. Remove 5 screws and RELAY (BACK) Board.
3. Disconnect CN501, CN502, CN503, CN504, CN505, / CN513, CN515, and CN522.

Note:

See SECTION 11 BLOCK DIAGRAM for connections.

Fig. 8-70



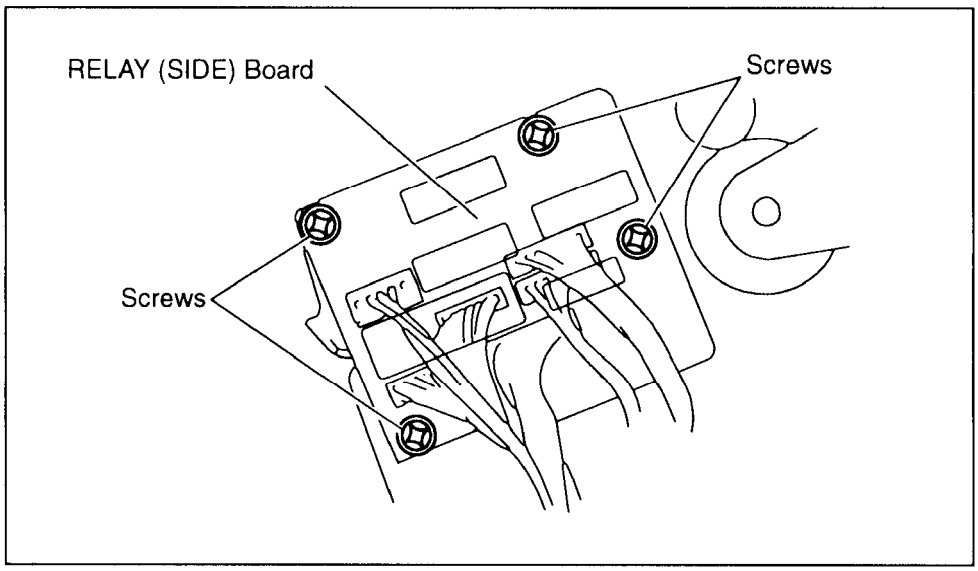
8.4.19. RELAY (SIDE) Board

1. Remove ADF Side Panel L.
   (See 8.2.6.)
2. Remove 4 screws and RELAY (SIDE) Board.
3. Disconnect all connectors from/to RELAY (SIDE) Board.

Note:

See SECTION 11 BLOCK DIAGRAM for connections.

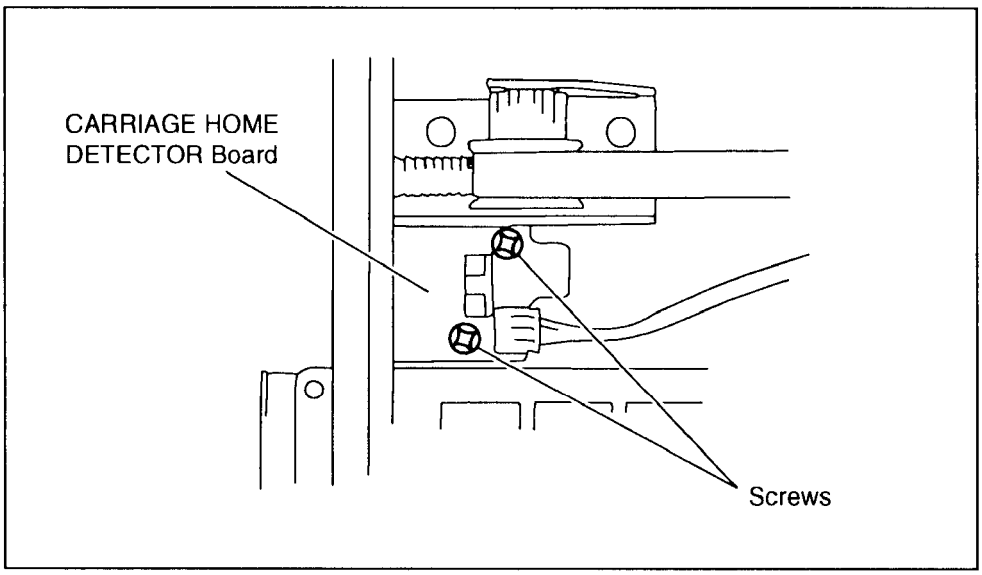
Fig. 8-71



8.4.20. CARRIAGE HOME DETECTOR Board

1. Remove FB Glass Base.
   (See 8.2.11.)
2. Remove ADF Glass Base.
   (See 8.2.12.)
3. Remove Shield Plate.
   (See 8.2.18.)
4. Remove 2 screws and CARRIAGE HOME DETECTOR Board.
5. Disconnect CN516.

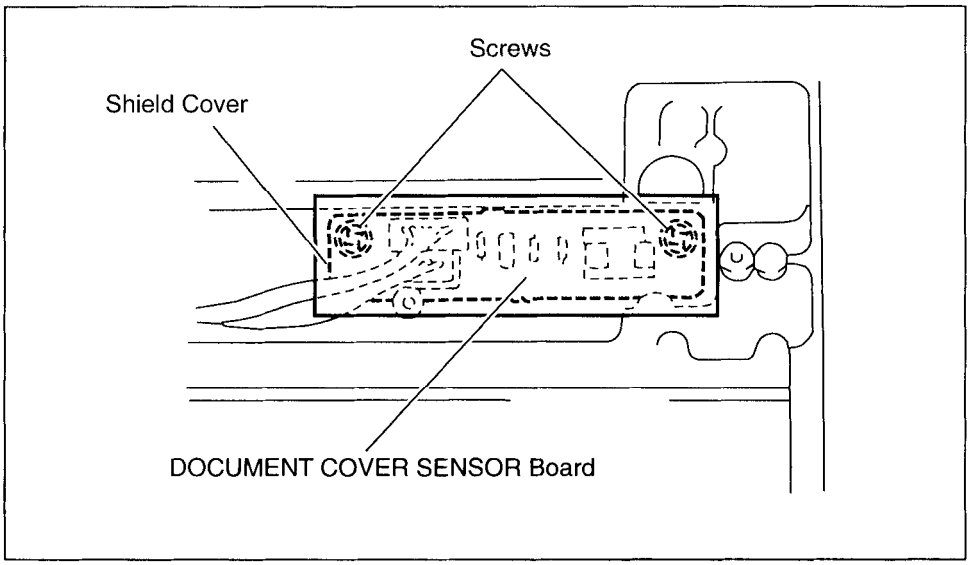
Fig. 8-72



8.4.21. DOCUMENT COVER SENSOR Board

1. Remove Flatbed sheet.
   (See 8.2.5.)
2. Remove 2 screws and DOCUMENT COVER SENSOR / Board.
3. Disconnect CN527.

Fig. 8-73



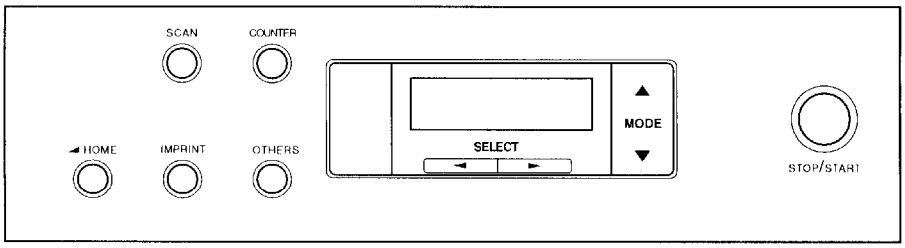
9. OPERATION

9.1. Front Panel Specifications

Item	Content
Indication Device	LCD Display
Indication Matrix	16 Characters x 2 lines
Kind of Character displayed	Alphabet, Number, Square Phonetic, Japane Syllabary
Indicated Contents	System Status (Initializing, Ready, Scanning Warning) Setting (Scanning, Counter, Imprinter, Other Service Mode
Indicated Languages	English, German, Japanese
Operation Key	SCAN, COUNTER, IMPRINT, OTHERS, ▲, ▼, ◄, ►, HOME, STOP/START Note: Pushing each key for more than 0.5 sec ena Repeat Mode

Fig. 9-1

Display panel and keys



SCAN : Press to enter the scanning setting menu.

COUNTER : Press to enter the counter setting menu.

IMPRINT : Press to enter the imprinter setting menu.

OTHERS : Press to enter other setting menu.

HOME : Press to exit from the setting section and return to the ready status.
Also used to change the display language.

STOP/START : Used to stop or start scanning a document.

: Up to 32 characters can be displayed during scanning or setting.

▲ : Press to advance to the next mode in the selected menu.

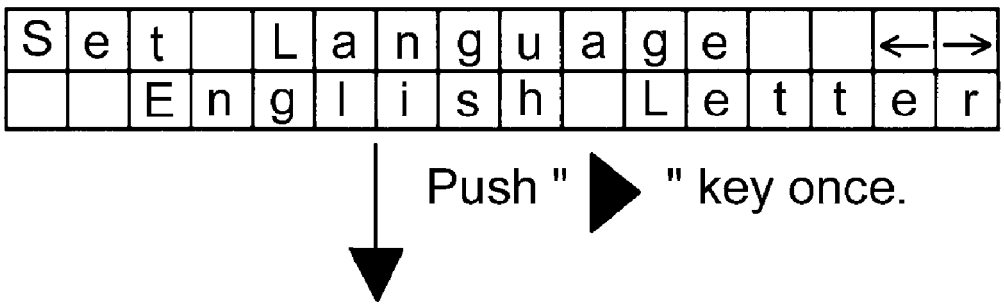
▼ : Press to return to the previous mode in the selected menu.

► : Press to advance to the next value in the selected mode.

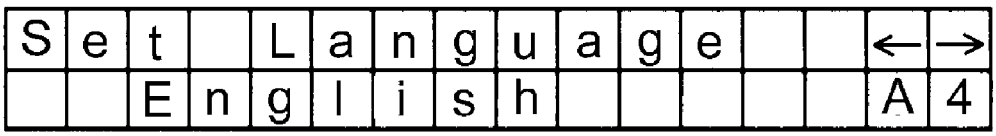
◄ : Press to return to the previous value in the selected mode.

Note: Setting the language

1. Turn the power while pressing the HOME key.



2. Use the [◀] key or [▶] key to select the “English Letter”, “English A4” or “Deutsch A4”, “ニホンゴ A4”.



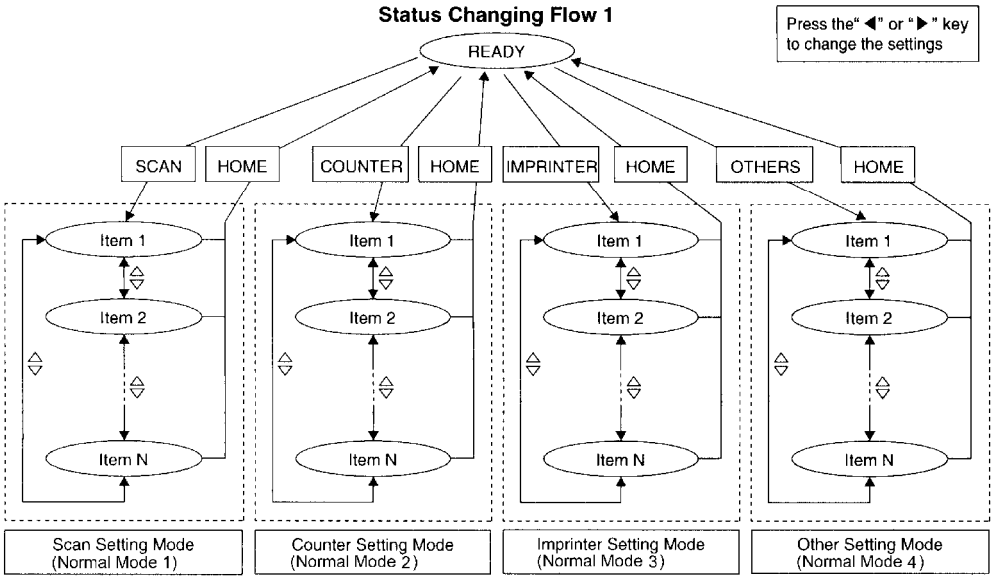
3. Press the HOME key.

- The display will change to the select language, then the scanner will be ready.

- This setting will remain until it is changed to another setting.

R	e	a	d	y											

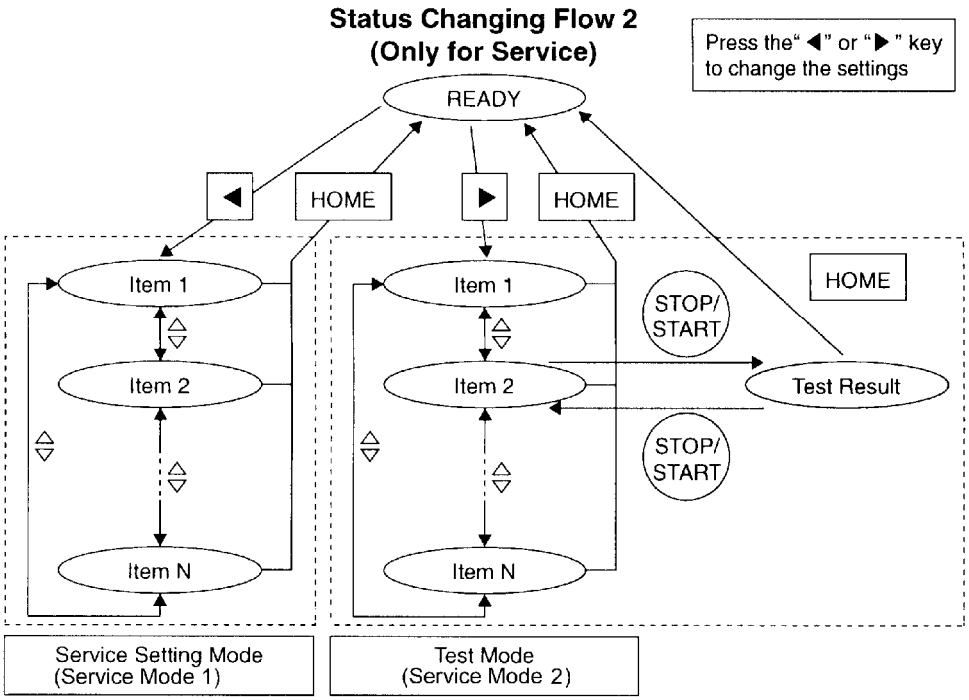
9.2. Operation-1 (Normal Mode)



By pressing another key, you can enter the other Setting Mode directly, without returning back the READY Mode. The Imprinter Setting Mode will operate only if the Imprinter (optional) has been installed in the Main Unit (KV-S6055W(U)/KV-S6050W(U)).

9.3. Operation-2 (Service Mode)

To enter Service Mode, turn on the Scanner while pressing the SCAN and the OTHERS keys simultaneously. Service Mode includes the Service Setting Mode and Test Mode. The Service Setting Mode offers functions that are not available in Normal Mode. The Service Setting Mode has "Set Warning value for timing of cleaning or replacing roller", and so on. The Test Mode has a scanning test and EEPROM initialization and so on. The Service Setting Mode can be available until the power is turned off.



9.4. Setting List

9.4.1. Scan Setting Mode (Normal Mode 1)

No	Item	Setting Contents									
1	F. Brightness	Host	D4	D3	D2	D1	Norm	L1	L2	L3	L4
2	F. Emphasis	Host	Smooth	None	Low	Medium	High				
3	F. Contrast	Host	L4	L3	L2	L1	Norm	H1	H2	H3	H4
4	F. Halftone	Host	Binary	Dither64	Dither16	Half-tone32	Half-tone64	Error Diffu-sion	*1 Dynamic Thres- / hold		
5	B. Color Drop	Host	Green	Red							
6	B. Brightness	Host	D4	D3	D2	D1	Norm	L1	L2	L3	L4
7	B. Emphasis	Host	Smooth	None	Low	Medium	High				
8	B. Contrast	Host	L4	L3	L2	L1	Norm	H1	H2	H3	H4
9	B. Halftone	Host	Binary	Dither64	Dither16	Half-tone32	Half-tone64	Error Diffu-sion	*1 Dynamic Thres- / hold		
10	Noise Reduction	Host	None	Black 1×1	~	Black 6×6	White 1×1	~	White 6×6		
11	Black Line Remove	Host	Dis- able	Enable							
12	Scanning Mode	Host	Fit to Page	Actual							
13	Detect Double Feed	Host	Not Detect	Detect							
14	Double Feed (Action after detecting double feed)	Host	Stop	Buzzer							
15	Double Feed (Set Sensitivity)	Sens. Host	Low Sensi-tivity	Normal Sens.	High Sensi-tivity						
16	Feed Speed	Host	Slow	Normal	Fast						

No	Item	Setting Contents									
17	Detect Skew	Host	Not Detect	Detect							
18	Scan Method	Host	Flat- Bed								
19-a	Save Setting (Select memory)	Memory1	Memory2								
19-b	Save Setting (Memorize scanning condition to EEPROM)	Exe-cute									
20	Load setting for scanning condition	De- fault	Memory1	Memory2							

Note

***1 : Without an additional memory on the SCSI Board, this indication does not appear.**

9.4.2. Counter Setting Mode (Normal Mode 2)

No	Item	Setting Contents												Default	Factory Setting
1	Disp. Counter	Scan	User	System										Scan	Scan
2-a	User Counter (Set counter value)	0~ 9999999												0	0
2-b	User Counter (Set Increment value)	+1~+9												+1	+1
2-c	User Counter (Clear user counter)	Clear												-	-
3	(Disp.) System Counter													-	0

Note:

1. Disp. Counter

Select what type of counter value is indicated on LCD.

9.4.3. Imprinter Setting Mode (Normal Mode 3)

No	Item	Setting Contents												Default	F S
1	Pre Imprint (Select contents to print)	Host	Coun- ter											Host	Ho
2	Pre Position (Set printed position)	Host	0~72 Char.											Host	Ho
3	Pre Font	Host	Bold	Normal										Host	Ho
4	Pre Rotate	Host	0°	90°	180°	270°								Host	Ho

Note:

- These settings are available only for supplying Imprinter to Scanner(KV-S6055W(U)/KV-S6050W(U)).

- 2. Pre Position (Set printed position)

Set the position from which printing starts, based on the top of the sheet.

9.4.4. Other Setting Mode (Normal Mode 4)

No	Item		Setting Contents												Default	Factory Setting
1	Version (Disp. firmware version)														-	-
2	Buzzer		OFF	ON											ON	ON
3	SCSI-ID		No. 0~7												6	6
4	Terminator		Dis- able	Enable											Enable	Enable
5	Transfer Rate		20MByte /sec	10MByte /sec											20MByte/ sec	20MByte/ sec
6-a	Clean Roller (Disp. %)		~%												0%	0%
6-b	Clean Roller (Clear warning for “Clean Roller”)		Clear <>												-	-
7-a	Replace Roller (Disp. %)		~%												0%	0%
7-b	Replace Roller (Clear warning for “Replace Roller”)		Clear												-	-
8	Product ID	KV-S6055W series	KV-S6055	KV-SS855	KV-S2065	KV-S2055	KV-S6045								KV-S6055	KV-S6055
		KV-S6050W series	KV-S6050	KV-SS855	KV-S2065	KV-S2055	KV-S6040								KV-S6050	KV-S6050
9	Sleep Mode (Set period to enter in Sleep Mode)		Dis- able	After 1 min~ 60 min											15 min	15 min

Note:

- If the scanner is the last device in the SCSI chain, then the terminator should be set to “Enable”. But, under the above SCSI chain and scanner’s turn-off, the terminator should be attached to the SCSI connector on the scanner.
- Setting the SCSI ID will be activated after turning the power OFF and turning it ON again.
- Setting the terminator will be activated after turning the power OFF and turning it ON again.

9.4.5. Service Setting Mode (Service Mode 1)

No	Item	Setting Contents												Default	Factory Setting
1	PCB Rev. No. (Disp. PCB Version and others)													-	-
2	Clean Roller (Set counter for roller cleaning timing)	5000 pages	~	1,000,000 pages										50,000	50,000
3	Replace Roller (Set counter for roller replacement timing)	5000 pages	~	1,000,000 pages										300,000	300,000
4	Detect Size	A4	Letter											*1	*1
5	Adjust value for Paper Length Manually	28~228												-	
6	Adjust value for Front V. Position Manually	28~228												-	
7	Sensor Delay (Adjust value for Sensor Delay Manually)	80~255												-	-
8	Adjust value for Front H. Position Manually	8~248												-	
9	Adjust value for Front Width Manually	1~128												-	
10	Adjust value for Back V. Position Manually	28~228												-	
11	Adjust value for Back H. Position Manually	118~138												-	
12	Adjust value for FB Length Manually	28~228												-	
13	Adjust value for FB V. Position Manually	28~228												-	
14	Adjust value for FB H. Position Manually	8~248												-	
15	Lamp (Set lamp color)	Green	Red											-	-
16	Double Feed (Set detection level)	118	128	138										-	-
17	Set Default	Exec <>												-	
18	Reset Language	Exec <>												-	

Note

***1 : Setting content (A4 or Letter) on the item 4 depends on “Set language”.**

Selected Mode		Detect Size
English A4	→	A4
English Letter	→	Letter
Deutsh A4	→	A4
ニホンゴ A4	→	A4

9.4.6. Test Mode (Service Mode 2)

No	Item	Setting Contents												Default	Factory Setting
1-a	Feed Test (Set resolution and test)	100~600	START											200	200
1-b	Feed Test (Set size and test)	A4	A5	A6	B4	B5	B6	MAX	Ltr	Lgl	Ldr	A3	START	A4	A4
1-c	Feed Test (Set Length Control and test)	OFF	ON	START										ON	ON
2-a	Carriage Test (Set resolution and test)	100~600	START											200	-
2-b	Carriage Test (Set paper size and test)	A4	A5	A6	B4	B5	B6	Ltr	Lgl	Ldr	A3	START		A4	-
3-a	CCD Test AMP1 (Set gain for Amp1 and test)	X1	X2	Lamp OFF	START									X1	-
3-b	CCD Test AMP2 (Set gain for Amp2 and test)	0~255	START											Current Value	-
3-c	B. CIS LED (Set LED level and test)	0~255	START											Current Value	-
4-a	F. CCD Black Level (Set black off-set level and test)	0~255	START											Current Value	-
4-b	B. CIS Black Level (Set black off-set level and test)	0~255	START											Current Value	-
5	Document Sensor (Check each document sensor condition)	START												-	-
6	Sensor Sensitive Level	START												-	-
7	Door & Home sensor	START												-	-
8	Hopper Test	START												-	-
9	Conveyor Motor	START												-	-
10	Feed Motor	START												-	-
11	Aging	START												-	-

No	Item	Setting Contents												Default	Factory Setting
12	DIMM SPD (Information)	-												-	-
13	Memory Test	START												-	-
14	Sleep Mode	START												-	-
15	Init. EEPROM	START												-	-
16	Double Feed Test (Check double feed sensitivity after setting input-level)	0~255	START											Current Value	-
17	Adjust Double feed Detector	START												-	-
18	Adjust Length Automatically	START												-	-
19	Adjust Front V. Position Automatically	START												-	-
20	Adjust Front H. Position Automatically	START												-	-
21	Adjust Front width Automatically	START												-	-
22	Adjust Back V. Position Automatically	START												-	-
23	Adjust Back H. Position Automatically	START												-	-
24	Adjust FB Length Automatically	START												-	-
25	Adjust FB V. Position Automatically	START												-	-
26	Adjust FB H. Position Automatically	START												-	-
27	Adjust all position & length Automatically	START												-	-
28	Adjust shading	START												-	-

Note:

- CCD Test AMP1 (2) (Set gain for Amp1 (2) and test)
When checking lighting level only from the front side, set the level to zero on B. CIS LED (Set LED level and test).

- B CIS LED (Set LED level and test)
When checking lighting level from the back side, set the above AMP1 to “Lamp OFF”.

9.5. Setting Operation (Normal Mode)

9.5.1. Scan Setting Mode (Normal Mode 1)

9.5.1.1. Mode-1

9.5.1.2. Mode-2

9.5.2. Counter Setting Mode (Normal Mode 2)

9.5.3. Imprinter Setting Mode (Normal Mode 3: Option)

These settings can only be access if the optional imprinter is installed.

9.5.4. Other Setting Mode (Normal Mode 4)

9.5.4.1. Mode-1

9.5.4.2. Mode-2

9.6. Setting Operation (Service Mode)

9.6.1. Service Setting Mode (Service Mode 1)

9.6.1.1. Mode-1

9.6.1.2. Mode-2

9.6.1.3. Mode-3

9.6.2. Test Mode (Service Mode 2)

9.6.2.1. Mode-1

9.6.2.2. Mode-2

9.6.2.3. Mode-3

9.6.2.4. Mode-4

9.6.2.5. Mode-5

9.6.2.6. Mode-6

9.6.2.7. Mode-7

9.6.2.8. Mode-8

9.7. Error Code

10. TROUBLESHOOTING

Error Code for KV-S6055(S6050) as shown in 9.7.

Classified Code	Error Code				Possible Cause	Check Point
U10	10	00	00	00	**Paper Detector does not work.** 1. Paper has not been properly set. 2. The back side of the last scanning is black. 3. A connector for the sensor signal is loosen. 4. Paper Detector is damaged.	1. Replace the torn or ripped paper. 2. Place correct sheet. 3. Confirm operation of the sensor in Test Mo sensor does not work, the connector has com Attach the connector correctly. 4. Check whether the cable and/or Sensor boa broken.
U11	11	xx	00	00	**Paper does not feed in the correct timing.** 1. Slip caused by dirt of the roller. 2. Conveyor has not been set properly. 3. Double Feed. 4. Sensor error.	1. Replace the Paper Feed Roller, Separation I Retard Roller if they are worn down. 2. Set conveyor properly. 3. Clean the Separation Roller and Retard Roll whether the Retard Roller is properly set. Rep Paper Feed Roller, Separation Roller, or Retar they are worn down. 4. Clean any paper dust on the sensor section
U12	12	xx	00	00	**Paper does not reach to the Starting Position Sensor.** 1. Paper Feed Roller, Separation Roller, and Retard Roller are slipping. 2. Following Paper which cause Double Feed is left, inside unit. 3. Sensor error.	1. Clean the Paper Feed Roller, Separation Ro Retard Roller. 2. Clean the Separation Roller and the Retard 3. Clean any paper dust on the sensor section
U13	13	xx	00	00	**Paper does not reach to the Ending Position Sensor.** 1. Slip caused by dirt of the roller. 2. Sensor error. 3. Conveyor has not been properly installed.	1. Clean the Conveyor Roller. 2. Clean any paper dust on the sensor section 3. Assemble the conveyor properly.
U16	16	xx	00	00	**Paper does not pass the Ending Position Sensor.** 1. Slip caused by dirt of the roller. 2. Sensor error. 3. Conveyor has not been properly installed.	1. Clean the Conveyor Roller. 2. Clean any paper dust on the sensor. 3. Assemble the conveyor properly.
U18	18	xx	00	00	1. Paper remains in the equipment. 2. The Paper Detector is ON. (1) LED is broken. (2) Sensor is broken. Confirm the LED and the sensor operation state. Confirm steps: 1) Start the Doc Sensor Test in Test Mode. 2) Open the conveyor and shine a light on the sensor. If the sensor turns ON, there is a problem with the LED. If the sensor does not turn ON, there is a problem with the sensor. (3) Conveyor is not assembled correctly. (4) LED or Sensor is bent down. (5) Sensor is covered with paper dust.	1. Remove paper. 2. (1) Replace the LED. (2) Replace the Sensor. (3) Assemble the conveyor properly. (4) Replace the LED or sensor. (5) Clean any dust on the sensor section.
U30	20	00	00	00	**U30 Error Code does not turn off even through the Front Door is closed.** 1. Front Door Switch is not being correctly shut down. 2. Front Door Switch is broken.	1. Check that the Front Door Switch is not bei correctly shut down. 2. Replace the Front Door Switch.
U31	21	00	00	00	**U31 Error Code does not turn off even through the ADF Door is closed.** 1. ADF Door Switch is not being correctly shut down. 2. ADF Door Switch is broken.	1. Check that the ADF Door Switch is not bein shut down. 2. Replace the ADF Door Switch.

Classified Code	Error Code				Possible Cause	Check Point
U34	22	00	00	00	U34 Error Code does not turn off even through the Back Door is closed. 1. The connector to the Back Door Detector is loosen. 2. The Back Door Detector is broken.	1. Connect the cables properly. 2. Replace the sensor board.
U35	25	00	00	00	U35 Error Code does not turn off even through the Document Cover is closed. 1. The connector to the Document Cover Sensor is loosen. 2. The Flat-Bed Door Detector is broken.	1. Connect the cables properly. 2. Replace the sensor board.
F40	30	xx	00	00	The Hopper Home Sensor does not operate properly. 1. The connector to the HOPPER POSITION DETECTOR Board is not properly inserted. 2. The Hopper Home Detector is broken.	1. Mount the connector properly. 2. Replace the HOPPER POSITION DETECTOR
F50 | F78	40 | 4F	00 | 00	00 | 00	00 | 00	1. Paper dust on the sensor section. 2. LED or sensor is laid down. 3. LED has reached the end of its useful life.	1. Clean the sensor section. 2. Straighten the LED or sensor. 3. Replace the LED.
F10	80	00	00	00	1. Program ROM is not correctly mounted. 2. Download has failed.	1. Remount ROM correctly. 2. (1) Download again. (2) Replace the Program ROM or the MAIN CO Board.
F11	81	xx	xx	xx	Poor soldering around the Work RAM (IC1029, IC1030) on the MAIN CONTROL Board. (ST2: DATA) (ST3, 4: Address)	Replace the MAIN CONTROL Boa
F15	85	00	00	00	Download to Imprinter has failed.	1. Replace the IMPRINTER Board. 2. Confirm the cable connected to IMPRINTER 3. Confirm MAIN CONTROL Board Imprinter I/I
F17	87	00	00	00	Poor soldering around the SD-RAM (IC604, IC605) on the SCSI Board.	Replace the SCSI Board.
F18	88	00	00	00	Additional DIMM is not mounted correctly.	Remount the DIMM.
F19	89	00	00	00		
F20	8A	xx	xx	xx	Shading RAM Error	Replace the MAIN CONTROL Boa
F21	8B	xx	xx	xx	Line RAM Error	Replace the MAIN CONTROL Boa
F26	90	xx	xx	xx	Patch RAM Error	Replace the MAIN CONTROL Boa
F28	92	xx	xx	xx	Rotation RAM Error	Replace the MAIN CONTROL Boa
F29	93	xx	xx	xx	Front Gamma RAM Error	Replace the MAIN CONTROL Boa
F30	94	xx	xx	xx	Back Gamma RAM Error	Replace the MAIN CONTROL Boa
F31	95	xx	xx	xx	Dither RAM Error	Replace the MAIN CONTROL Boa
F34	98	xx	xx	xx	EEPROM RAM Error	Replace the MAIN CONTROL Boa
F36	9A	xx	xx	xx	GA Sensor Error	Replace the MAIN CONTROL Boa
F37	9B	xx	xx	xx	GA Image Error	Replace the MAIN CONTROL Boa SCSI Board.

(Note)
If neither LCD indication nor memory accessed from CPU work properly, when initializing, LED6

to LED1 (D106-D101) status can be available for trouble-shooting.
Scanner CPU checks attached ROM and RAM on MAIN CONTROL Board and on SCSI Board after power ON. It displays 6 red LED pattern on the MAIN CONTROL Board according to progress of checking. All LED OFF means the MAIN CONTROL Board's check is finished normally. If some errors are detected, some LED remains to light.

Main Board LED display ○ : Lighting, ● : Not Lighting LED 6 5 4 3 2 1	Error Detail	Check Point
○ ○ ○ ○ ○ ○	LCD No Response Error	Replace MAIN CONTROL
○ ○ ○ ○ ○ ●	Flash-ROM check Error	Replace MAIN CONTROL
○ ○ ○ ○ ● ○	SRAM check Error	Replace MAIN CONTROL
○ ○ ○ ○ ● ●	Internal SRAM (Inside of CPU) check Error	Replace MAIN CONTROL
○ ○ ○ ● ○ ○	GA_SENSOR shading check Error	Replace MAIN CONTROL
○ ○ ○ ● ○ ●	GA_SENSOR line correction RAM check Error	Replace MAIN CONTROL
○ ○ ○ ● ● ○	EEPROM check Error	Replace MAIN CONTROL
○ ○ ○ ● ● ●	MAIN CONTROL Board Error (Another model MAIN Board is supplied)	Replace MAIN CONTROL
● ● ● ● ● ●	No Error	

Requirement after parts replacement
Following adjustments are required when print circuit board or part is replaced.

Replaced print circuit board or part	Required adjustment
MAIN Control Board	Adjust Shading Adjust All Position & Length Automatically Adjust Double Feed Detector Gain
Flash ROM	Adjust Shading
Front CCD Unit	Adjust Shading Adjust All Position & Length Automatically or 5 Adjustments should (1) Adjust ADF Front Width Automatically (2) Adjust ADF Front H. Position Automatically (3) Adjust ADF Front V. Position Automatically (4) Adjust FB H. Position Automatically (5) Adjust FB V. Position Automatically When “Adjust All Position & Length Automatically” is done, Length, Position, and Back V. Position are adjusted again.
Back CIS	Adjust Shading Adjust All Position & Length Automatically or 2 Adjustments should (1) Adjust ADF Back H. Position Automatically (2) Adjust ADF Back V. Position Automatically When “Adjust All Position & Length Automatically” is done, Length, Width, Front H. Position, Front V. Position, FB H. Position, and FB V. are adjusted again.
Starting Position Sensor Board Starting Position LED Board	Adjust All Position & Length Automatically or 2 Adjustments should (1) Adjust ADF Front V. Position Automatically (2) Adjust ADF Back V. Position Automatically
Double Feed Detector [Receiver] Board Double Feed Detector [Generate] Board	Adjust Double Feed Detector on Test Mode
Carriage Home Sensor Board	Adjust All Position & Length Automatically or 2 Adjustments should (1) Adjust ADF Front V. Position Automatically (2) Adjust FB V. Position Automatically
Initialize EEPROM	Adjust All Position & Length Automatically Adjust Double Feed Sensitivity
Disassemble and assemble which influence to scanning positions. EX) Disassemble and assemble of Sub Chassis (R), (L), Main Chassis (R), (L)	Adjust All Position & Length Automatically or 7 Adjustments should (1) Adjust ADF Front Width Automatically (2) Adjust ADF Front H. Position Automatically (3) Adjust ADF Front V. Position Automatically (4) Adjust ADF Back H. Position Automatically (5) Adjust ADF Back V. Position Automatically (6) Adjust FB H. Position Automatically (7) Adjust FB V. Position Automatically When “Adjust All Position & Length Automatically” is done, Length i adjusted again.
Driver Roller Conveyor Roller	Adjust All Position & Length Automatically or 1 Adjustment should b (1) Adjust Length Automatically

MEMO

11. BLOCK DIAGRAM

MEMO

12. EXPLANATION OF CONNECTOR

Note:

Signal names which begin with asterisk (*) indicates that the corresponding signal is LOW when active.

13. CIRCUIT BOARDS

13.1. MAIN CONTROL Board (Component Side)

13.2. MAIN CONTROL Board (Solder Side)

13.3. SCSI Board (Component Side)

13.4. SCSI Board (Solder Side)

13.5. MOTHER Board

13.6. CCD Board

13.7. INVERTER Board

13.8. DRIVE Board (Component Side)

13.9. DRIVE Board (Solder Side)

13.10. PANEL Board

13.11. CARRIAGE HOME DETECTOR Board

13.12. RETARD POSITION DETECTOR Board
13.13. DOUBLE FEED DETECTOR (R) Board
13.14. DOUBLE FEED DETECTOR (G) Board
13.15. STARTING POSITION SENSOR Board
13.16. STARTING POSITION LED Board
13.17. SIZE SENSOR Board
13.18. SIZE LED Board
13.19. ENDING POSITION SENSOR Board
13.20. ENDING POSITION LED Board
13.21. RELAY (SIDE) Board
13.22. HOPPER HOME SENSOR Board
13.23. DOCUMENT DETECTOR Board
13.24. DOCUMENT COVER DETECTOR Board
13.25. RELAY (BACK) Board
13.26. POWER Board
13.27. DC/DC CONVERTER Board

14. SCHEMATIC DIAGRAM

IMPORTANT SAFETY NOTICE

THE SHADED AREA ON THIS SCHEMATIC DIAGRAM INCORPORATES SPECIAL FEATURES IMPORTANT FOR PROTECTION FROM FIRE AND ELECTRICAL SHOCK HAZARDS. WHEN SERVICING, IT IS ESSENTIAL THAT ONLY MANUFACTURE'S SPECIFIED PARTS BE USED FOR THE CRITICAL COMPONENTS IN THE SHADED AREAS OF THIS SCHEMATIC.

14.1 MAIN CONTROL Board
14.2 SCSI Board
14.3 MOTHER Board
14.4 CCD and INVERTER Boards
14.5 DRIVE and PANEL & CARRIAGE HOME DETECTOR Boards
14.6 RELAY (BACK), RELAY (SIDE) and Sensor Boards
14.7 POWER and DC-DC CONVERTER Boards

Note:

This Schematic Diagram is the latest at the time of printing and

subject to change without notice.

14.1. MAIN CONTROL Board

14.2. SCSI Board

14.3. MOTHER Board

14.4. CCD and INVERTER Boards

14.5. DRIVE and PANEL & CARRIAGE HOME DETECTOR Boards

14.6. RELAY (BACK), RELAY (SIDE) and Sensor Boards

14.7. POWER and DC-DC CONVERTER Boards

15. PARTS LOCATION AND MECHANICAL PARTS LIST

IMPORTANT SAFETY NOTICE

Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

15.1 Exterior
15.2 Hopper Unit
15.3 Chassis
15.4 Power Unit
15.5 Packing

Note: RTL (Retention Time Limited)

The marking (RTL) indicates that the Retention Time is limited for this item. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependent on the type of assembly, and in accordance with the laws governing part and product retention.
After the end of this period, the assembly will no longer be available.

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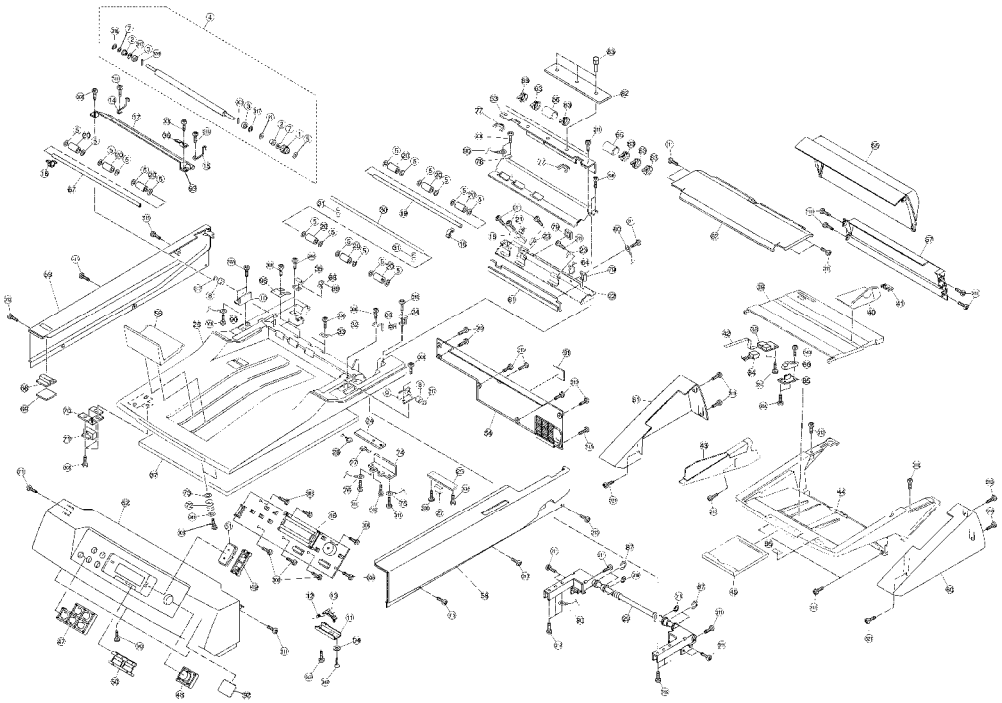
15.1. Exterior



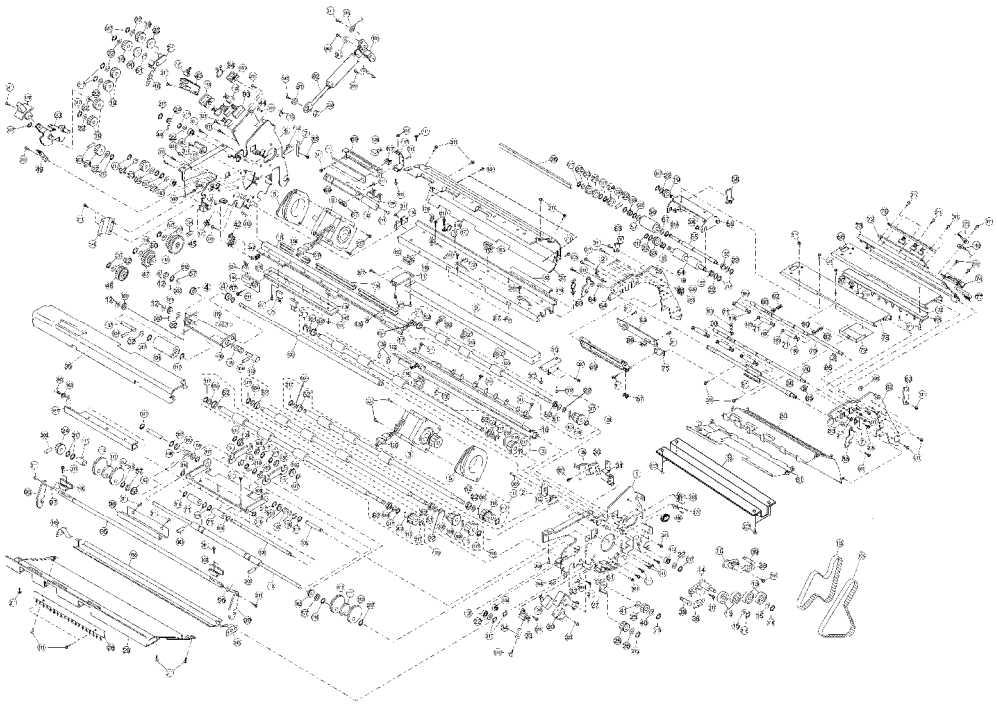
REPALCEMENT MECHANICAL PARTS LIST (Exterior)

Ref. No.	Part No.	Part Name & Description	Remarks
1	PBDGA0061Z	Gear for KV-S6055 series (ISO Code:POM)	
2	PBDJA0020Z	Spacer for KV-S6055 series	
3	PBDRA0073Z	Roller for KV-S6055 series	
4	PBDRA0103Y-J	Roller for KV-S6055 series	
5	PJNW4111Z	Spacer	
6	RWPS5-050	Spacer for KV-S6055 series	
7	RWPS5-100	Spacer for KV-S6055 series	
8	PBDEA0154Z	Collar	
9	PBMDX0501Z	Inside Cover Lock Fitting Plate (R)	
10	PBMDX0502Z	Inside Cover Lock Fitting Plate (L)	
11	PBMDA0489Z	Actuator Fitting Plate	
12	PJDSA0052Z	Arm Spring	
13	PJHRA0247Y	Open Sensor Actuator (ISO Code:ABS)	
14	PBDSA0118Z	Platen Roller Spring for KV-S6055 series	
15	PBDSA0119Z	Platen Roller Spring for KV-S6055 series	
16	PBHRA0181Z	Spacer (ISO Code:POM)	
17	PBUEA0112Y	Conveyor 1 for KV-S6055 series	
18	PBAPX2876045	STARTING LED Board	(RTL)
19	PBDFA0129Y	Free Roller Shaft	
20	PBDRA0029Z	Roller	
21	PBJEA0506Z	Cable (CN515-CN518)	
22	PBMDX0483Z	Free Roller Fitting Plate	
23	PBUSA0044Y	Free Roller Spring	
24	PBAPX2916045	ENDING LED Board	(RTL)
25	PBAPX2976045	DOCUMENT COVER Board	(RTL)
26	PBHAA0037Z-J	Flat Bed Cover (ISO Code:PS)	⚠
27	PBJEA0507Z	Cable (CN526-CN527)	
28	PBJEA0508Z	Cable (CN513-CN525)	
29	PBUEA0125Z	FB Cover Hinge	

Ref. No.	Part No.	Part Name & Description	Remarks
30	PBDFA0131Z	Free Roller Shaft	
31	PBDSA0114Z	Free Roller Spring	
32	PBDSA0120Z	Stopper Spring	
33	PBUSA0045Y	Free Roller Spring 2	
34	PBMDA0553Z	Clamp Fitting Plate (R)	
35	PBMDA0554Z	Clamp Fitting Plate (L)	
36	PBMDA0550Y	Plate	
37	PBHEA0102Y-J	Flat Bed	⚠
38	PBAPX2956045	DOCUMENT DETECTOR Board	(RTL)
39	PBKZA009Z-J1	Hopper Plate (ISO Code:PS)	
40	PBKEA0104Z-J	Exit Guide (ISO Code:PS)	
41	PBHRA0199Z	Paper Guide Plate (ISO Code:POM)	
42	PBJEA0503Y	Cable (CN529-CN537)	
43	PBULA0150Z-J2	Manuscript Side Plate	
44	PBKMA0060Z-J	Hopper Base (ISO Code:PS)	⚠
45	PBKMA0049Z	Tray (Extend Hopper) (ISO Code:PS)	
46	PBAPX2806045	PANEL Board	(RTL)
47	PBBCA0010Z	Hinge Button (A) (ISO Code:ABS)	
48	PBBCA0011X	Hinge Button (B) (ISO Code:ABS)	
49	PBBCA0012X	Hinge Button (C) (ISO Code:ABS)	
50	PBBCA0013X	Hinge Button (D) (ISO Code:ABS)	
51	PBBCA0014X	Seesaw Button (ISO Code:ABS)	
52	PBKMA0055X-J	Front Cover for KV-S6055 series (ISO Code:ABS)	⚠
52	PBKMA0055W-J	Front Cover for KV-S6050 series (ISO Code:ABS)	⚠
53	PBHMA0163Z	Cable Cover 1	
54	PBKFA0021Z	FB Rear Cover (ISO Code:PS)	⚠
55	PBKEA0103Z	Imprinter Door (ISO Code:PS)	⚠
56	PBKEA0112Z-J	Stopper Panel (ISO Code:PS)	
57	PBKFA0022Z	ADF Rear Cover (ISO Code:PS)	⚠
58	PBKMA0056Z	FB Rear Cover (R) (ISO Code:PS)	⚠
59	PBKMA0057Z	FB Rear Cover (L) (ISO Code:PS)	⚠
60	PBKMA0058Z-J	ADF Side Cover (R) (ISO Code:PS)	⚠
61	PBKMA0059Z	ADF Side Cover (L) (ISO Code:PS)	⚠
62	PBKMA0061Z-J	ADF Top Cover (ISO Code:PS)	⚠
63	KI-100M	Clamper	
64	TMM6463	Clamper	
65	PBMXA0048Z	Isolation Tube	
66	PBMXA0049Z	Isolation Tube	
67	PBDFA0130Z	Free Roller Shaft	
68	PBUEA0143Z	Plate	
69	PBHEA0164Z	Sheet	
70	PBMDA0571Z	Plate	
71	SM-108S	Magnet	
72	PBDSA0138Z	Spring	
73	CC-0612-10	Spacer	
74	PBUEA0145Z	Plate	
75	PBJEA0620Z	Earth Cable	
76	PBJEA0613Z	Earth Cable	
77	KG-010-L44	Bushing	
78	PBUEA0113Z-J	Conveyor	

Ref. No.	Part No.	Part Name & Description	Remarks
79	EDS-17L	Edge Saddle	
80	PBJEA0612Z	Earth Cable	
81	PBMXA0042Z	Sheet	
82	PBMXA0051Z	Sheet	
83	NRP-335	Rivet	
84	PBJEA0624Z	Cable	
85	PBMDA0573Z	Plate	
86	GP2A25	Photo Interrupter	
87	PBUSA0054Z	Spring	
88	LWS-3S	Clamper for KV-S6055W/KV-S6055WU	
89	LWS-1S	Edge Saddle	
90	CS-2	Earth Cable	
91	PJGTB0003Z	Name Plate for KV-S6055W	
91	PJGTB0015Z	Name Plate for KV-S6055WU	
91	PJGTB0014Z	Name Plate for KV-S6050W	
91	PJGTB0016Z	Name Plate for KV-S6050WU	
92	PJQTA0652Z	Label	
93	PBUEA0126Y	Conveyor for KV-S6050 series	
94	SWD-03B	Spacer	
95	PBQAA0898Z	Label	
96	PBUSA0064Z	Spring	
303	XPJ2C10VW	Pin	
308	XTW3+U10PFX	Screw	
311	XTW3+U6LFX	Screw	
313	XTW3+U8LFY	Screw	
316	XUC4FY	E-ring	
317	XUC5FY	E-ring	
318	XUC6FY	E-ring	
319	XTV3+14GFX	Screw	
321	XSN3+6FX	Screw	
334	XTW3+U8PFX	Screw	
340	XTB3+6FFY	Screw	
341	XWG32F10FX	Washer	
348	XYN3+F8FX	Screw	
349	XTS3+12GFZ	Screw	

15.2. Hopper Unit



REPALCEMENT MECHANICAL PARTS LIST (Hopper Unit)

Ref. No.	Part No.	Part Name & Description	Remarks
1	PBUAX0121Z	Inside Cover Chassis (R)	
2	PBDSA0079Z	Lock Spring	
3	PV267-02A-C3	Stepping Motor (DC5.5W)	⚠
4	PJDJB0007Z	Spacer (ISO Code:POM)	
5	PBHE28Z	Damper	
6	PBUAX0122Z	Inside Cover Chassis (L)	
7	PBDSA0080Z	Lock Spring	
8	PK266-02AC89	Stepping Motor (DC3.93W)	⚠
9	EQ4R300Q1	CIS for KV-S6055 Series	
9	PBUEA0130Z	Conveyor for KV-S6050 W/WU Only	
10	PBMDA0458Z	Plate for KV-S6055 series	
11	PBMDA0457Z	Plate for KV-S6055 series	
12	PJNW525	Spacer	
13	DR-20-H5	Roller	
14	PBDEX0133Z	Tension Plate	
15	RWPS5-10025	Spacer	
16	PBDEX0132Z	Tension Plate	
17	PBAPX2896045	SIZE LED Board	(RTL)
18	PBULA0140Z	Reinforcement Plate 1	
19	PBDGA0018Z	Gear (ISO Code:POM)	
20	PBDGA0071Z	Pitch Roller (ISO Code:POM)	
21	PBUEX0114Z	Paper Feed Planetary Plate	
22	RWPS6-025	Spacer	
23	PBUEX0115Z	Retard Planetary Plate	
24	PBDGA0038Z	Gear (ISO Code:POM)	
25	PBDGA0062Z	Gear (ISO Code:POM) for KV-S6055 series	
26	PBDRA0076Z	Roller for KV-S6055 series	
27	PBUEX0116Z	Conveyor Planetary Plate for KV-S6055 series	
28	PBMEA0057Z	Discharge Brush	

Ref. No.	Part No.	Part Name & Description	Remarks
29	PBUEA0110Z	Exit Conveyor	
30	SS-5GL-3T	Micro Switch	
31	PBMDA0486Z	Fitting Plate 2	
32	PBMDA0493Z	Switching Fitting Plate	
33	PBMDA0549Z	Fitting Plate	
34	PBDSA0135Z	Inside Cover Spring	
35	PBUEX0109Z-J	Retard Roller Assembly	
36	PBHRX0150Z	Felt	
37	PBUVX0028Z-J	Plate	
38	PBDS10Z40	Spring	
39	PBHDA0001Z	Screw	
40	RWPS4-025	Spacer	
41	RWPS4-050	Spacer	
42	NF-058E	Oil Damper	
43	PBAPX2836045	RETARD POSITION Board	(RTL)
44	PBAPX2926045	RELAY(SIDE) Board	(RTL)
45	PBDGA0028Z	Intermediate Gear (ISO Code:POM)	
46	PBDGA0030Z	Gear (ISO Code:POM)	
47	PBDGA0033Y	Gear (ISO Code:POM)	
48	PBDSA0111Z	Paper Feed Spring	
49	PBUSA0046Z	Retard Change Spring	
50	RWPS5-025	Spacer	
51	RWPS6-100	Spacer	
52	THF-612ZZ4.5	Ball Bearing	
53	PBDGA0013Z	Gear (ISO Code:POM)	
54	PBDRA0081Z	Paper Feed Roller	
55	PBDFA0132Z	Roller Shaft	
56	PBDRA0065Z	Roller	
57	RWPS8-025	Spacer	
58	PBDSA0110Z	Roller Spring	
59	PBMDX0484Y	Feed Unit Fitting Plate	
60	PBDFA0136Z	Switching Shaft	
61	PBUL30Z	Plate	
62	PBUAX0123Z	Outside Cover Chassis (R)	
63	PBUSA0047Z	Imprinter Door Spring	
64	PBUAX0124Z	Outside Cover Chassis (L)	
65	PBAPX288645C	SIZE SENSOR Board	(RTL)
66	PBULX0137Y	Reinforcement Plate (Upper) 2	
67	EDS-0607M	Edge Saddle	
68	PBAPX2856045	DOUBLE FEED DETECTOR (G) Board	(RTL)
69	PBMDA0487Z	Fitting Plate	
70	PBDFA0129Y	Free Roller Shaft	
71	PBDRA0029Z	Roller (ISO Code:POM)	
72	PBAPX2996045	RELAY (REAR) Board	(RTL)
73	PBULX0137Z	Reinforcement Plate (Upper) 1	
74	PBULA0149Z	Imprinter Fitting Plate	
75	PBMDA0547Z	Sensor Plate 1	
76	PBHEA0150Z	Protection Sheet (ISO Code:PVC)	
77	PBJEA0494Z	Cable (CN503-Imprinter)	
78	PBULA0137Y	Reinforcement Plate (Upper) 2	
79	PBHMA0165Z	Switching Cover	
80	PBUVA029Z-J1	Plate	
81	PBUEX0111Z-J	Paper Feed Conveyor Assembly	
82	PBDSA0114Z	Free Roller Spring	

Ref. No.	Part No.	Part Name & Description	Remarks
83	PBDSA0116Z	Spring	
84	PBDSA0117Z	Spring	
85	PBHRA0181Z	Spacer	
86	PBJEA0495Z	Cable (CN502-CN534)	
87	PBJEA0497Z	Cable (CN521-CN522)	
88	PBULA0143Z	Lever Switching Cover (R)	
89	PBULA0144Z	Lever Switching Cover (L)	
90	PJDJA0016Z	Roller Bear (ISO Code:POM)	
91	PBHMA0106Z	Spacer	
92	Y0048	Damper	
93	PBJEA0509Z	Cable (Relay(c))	
94	TMM6463	Clamper for KV-S6055 series	
94	TMM7468	Clamper for KV-S6050 series	
95	PBDFA0137Z	Shaft	
96	PBDSA0127Z	Lever Spring	
97	PBDSA0128Z	Lever Spring	
98	PBULA0145Z	Lock Release Plate	
99	PBULA0151Z	Lock Lever	
100	PBULA0147Z	Lock Stopper	
101	PBULA0148Z	Gas Damper Fitting Plate	
102	PBBSA0002Z	Retard Cancel Lever (ISO Code:ABS)	
103	B-F6-171	Spacer	
104	80S2M334GB	Conveyor Belt	
105	PBDFA0126Z	Hopper Shaft	
106	PBDFA0135Z	Hopper Shaft	
107	PBDSA0107Z	Hopper Spring	
108	PBDSA0108Z	Hopper Spring	
109	PBMDA0500Z	Hopper Pressure Plate	
110	PBDFA0127Z	Hopper Cam Shaft	
111	PBDGA0068Z	Hopper Cam (ISO Code:POM)	
112	PBDGA0069Z	Hopper Cam Fringe (ISO Code:POM)	
113	PBHRA0023Z	Shutter (ISO Code:ABS)	
114	PBDRX10S6055	Roller	
115	PBUDA0036Z	Drive Pulley (ISO Code:POM)	
116	PBDGA0058Z	Gear (ISO Code:POM)	
117	PBDRX09S6055	Roller	
118	PBDGA0059Z	Gear (ISO Code:POM)	
119	PBDSA0112Z	Retard Spring	
120	PJJRB0609Z	Cable	
121	PBJEA0499Z	Cable (CN514-CN517)	
122	PBJEA0500Y	Cable (CN510-CN524)	
123	PBDRX11S6055	Roller	
124	PBJEA0502Z	Cable (CN530-CN531)	
125	PBDRX03S6055	Roller	
126	PBJEA0505Z	Cable (CN519-CN535)	
128	PJJRB0610Z	Cable for KV-S6055 series	
128	PJJRB0656Z	Cable for KV-S6050 series	
129	PBDRX04S6055	Roller	
130	PBMDX0485X-J	Retard Fitting Plate	
132	PBDEA0195Z	Pin	
133	PJDFB0006Z	Shaft	
134	PBDRA0083Y	Roller	
135	PBDSA0102Y	Spring	
136	PBHEA0172Z	Sheet (ISO Code:PC)	

Ref. No.	Part No.	Part Name & Description	Remarks
137	PJDEB0003Z	Shaft	
138	PBUEX0117Y	White Standard Conveyor	
139	KI-100M	Clamper	
140	PBJEA0623Z	Earth Cable	
141	PBAPX2846045	DOUBLE FEED DETECTOR (R) Board	(RTL)
142	PBAPX286645C	STARTING POSITION SENSOR Board	(RTL)
143	PBAPX290645C	ENDING SENSOR Board	(RTL)
144	PBAPX2936045	HOPPER POSITION Board	(RTL)
145	PBUSA0043Z	Conveyor Spring	
146	PBHMA0164Z	Cable Cover 2	
147	PBMDA0548Z	Sensor Plate 2	
148	PBULA0141Z	Reinforcement Plate 2	
152	PBMDA0551Z	Plate	
153	LWS-1S	Edge Saddle	
154	PBHMA0180Z	Spacer	
155	80S2M318GB	Flat Belt	
156	PBMDA0574Z	Plate	
157	PBUEA0106Z	Plate	
158	CE012-L100	Edging	
159	CE012-L70	Edging	
160	CC-0613-15	Spacer	
161	PBMEA0059Z	Plate	
162	F-FLAW678AZZ	Ball Bearing	
163	CC-0816-15	Spacer	
164	RWPS6-050	Spacer	
165	AL4	Clamper	
166	LWS-3S	Clamper	
167	PBMDA0570Z	Plate	
168	PBDGA0094Z	Spacer (ISO Code:POM)	
169	KG-032-L56	Bushing	
170	UAMS-05SN-W	Bushing	
172	PBHEA0155Z	Sheet (ISO Code:PC)	
173	CS-2	Clip	
174	TMM764301	Clamper	
175	PBJEA0613Z	Cable	
178	TMM6428-1	Clamper	
179	EDS-2	Bushing	
180	PJNW4111Z	Spacer	
181	PJDGB0006Z	Retard Gear (ISO Code:POM)	
183	PJDSB0007Z	Spring	
184	3E32	Rivet	
185	FFLAWBC612ZZ	Ball Bearing	
302	XPJ2C12VW	Pin	
303	XPJ2C10VW	Pin	
304	XPL2B12WVW	Pin	
305	XTB3+6FFX	Screw	
307	XTW3+U4L	Screw	
308	XTW3+U10PFX	Screw	
311	XTW3+U6LFX	Screw	
313	XTW3+U8LFY	Screw	
315	XUC3FY	E-ring	
316	XUC4FY	E-ring	
317	XUC5FY	E-ring	
318	XUC6FY	E-ring	

Ref. No.	Part No.	Part Name & Description	Remarks
322	XYN2+J6FX	Screw	
323	XYN23+J10FX	Screw	
327	XYN26+J6FX	Screw	
331	XYN4+J10FXS	Screw	
336	XNA3FX	Nut	
337	XYN4+J12FXS	Screw	
338	XNG4BS	Nut	
342	XYN4+F12FY	Screw	
343	XSS5+8FX	Screw	
344	XYN3+J6FX	Screw	

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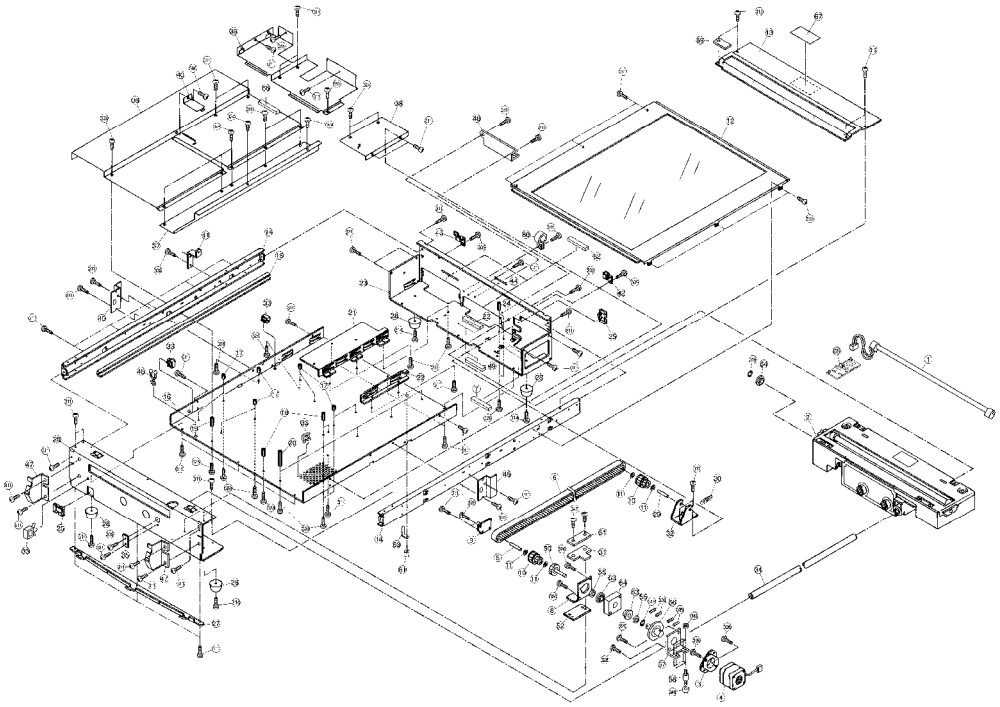
15.3. Chassis



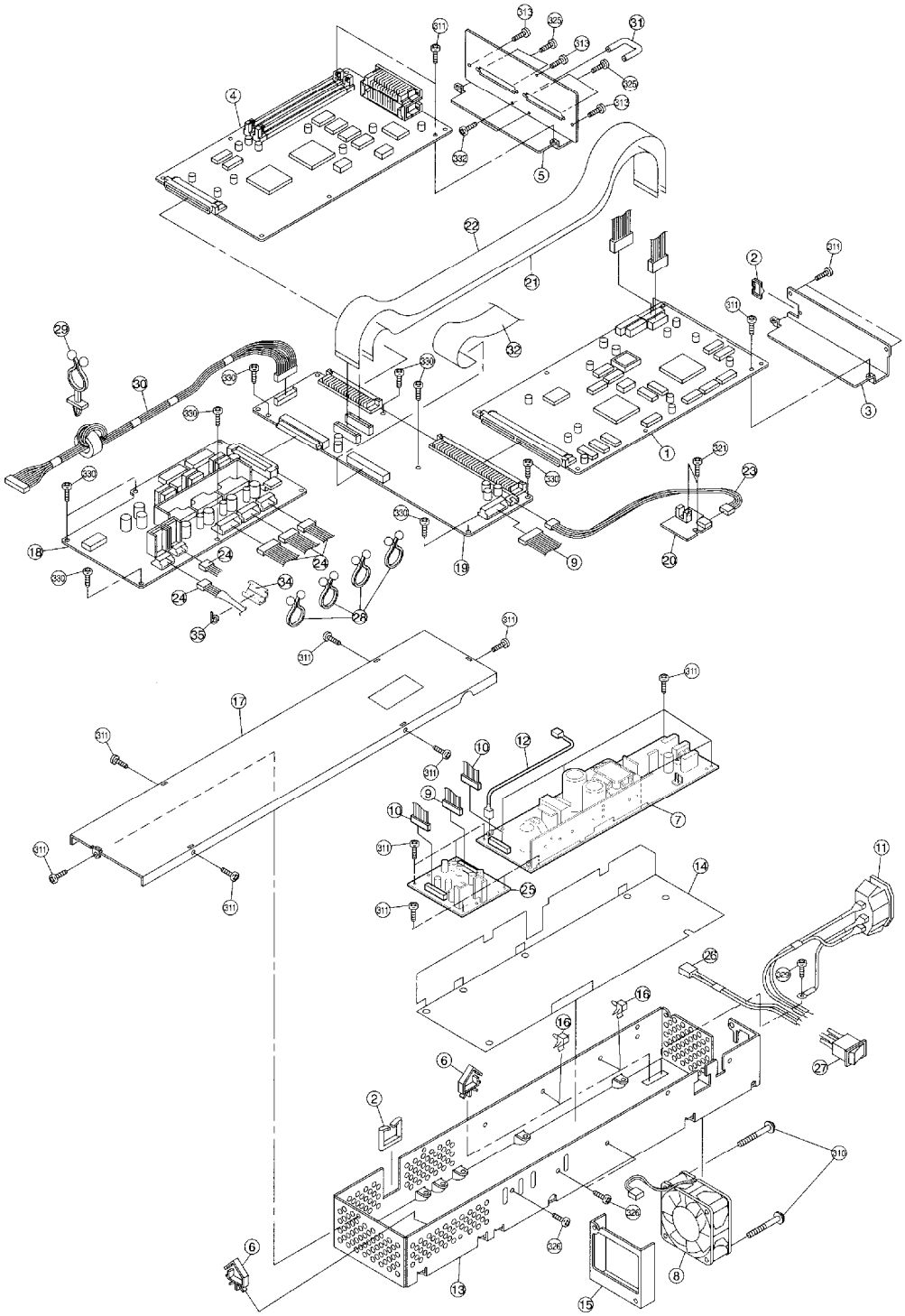
REPALCEMENT MECHANICAL PARTS LIST (Chassis)

Ref. No.	Part No.	Part Name & Description	Remarks
1	CFX12AYG/36H	Lamp Holder	
2	PBHAA0036Z-J	Carriage Unit for KV-S6055W/6050W	⚠
2	PBHAA036Z-J1	Carriage Unit for KV-S6055WU/6050WU	⚠
3	RF1401-A5	Carriage Motor Mount	
4	103H549-0449	Carriage Motor	⚠
5	PBDFA0113Z	Timing Pulley Shaft	
6	100S2M1224GB	Timing Belt	
7	PJQTB0003Z	Label	⚠
8	PBMDA0476Z	Fitting Plate	
9	PBMDA0498Z	Timing Pulley Plate	
10	PBUDA0034Z	Fitting Pulley (ISO Code:POM)	
11	RWPS6-050	Spacer	
12	PBHEA0092Z-J	FB Glass Base Assembly for KV-S6055W/6050W	
12	PBHEA0092Y-J	FB Glass Base Assembly for KV-S6055WU/6050WU	
13	PBHEA0093Z-J	ADF Glass Base Assembly for KV-S6055W/6050W	
13	PBHEA093Z-J1	ADF Glass Base Assembly for KV-S6055WU/6050WU	
14	PBUAA0119Z	Side Frame	
15	PBUEA0105Z	Carriage Guide Rail	
16	PBUAA0120Z	Bottom Frame	
17	PBHMA0180Z	Spacer	
18	PBHMA0182Z	Spacer	
19	PBHMA0183Z	Spacer	
20	PBHMA0184Z	Spacer	
21	PBUEA0107Z	PCB Guide Rail (A)	
22	PBUEA0108Z	PCB Guide Rail (B)	
23	PBUAA0118Z	Rear Frame	
24	PBHMA0181Z	Spacer	
25	EDS-1717U	Edge Saddle	

Ref. No.	Part No.	Part Name & Description	Remarks
26	PBUAA0117Z	Front Frame	
27	PBMDA0497Z	Front Cover Fitting Plate	
28	C-30-RK-30	Rubber Foot	
29	PBDFA0114Z	Tension Pulley Shaft	
30	PBDSA0105Z	Tension Spring	
31	PBHGA0055Z	Rubber	
32	PBMDA0477Z	CIS Fitting Plate (L)	
33	LWS-1S	Edge Saddle	
34	PBDFA0112Z	Carriage Shaft	
35	PBMDA0478Z	CIS Fitting Plate (R)	
36	PBMCA0093Z	Shield Cover (A)	
37	PBMCA0094Z	Shield Cover (B)	
38	PBMCA0095Z	Shield Cover (C)	
39	PBMCA0098Z	Shield Cover (D)	
40	PBHMA0157Z	Plate	
41	PBUEA0118Z	Inside Cover Holding Plate	
42	PBHMA0166Z	Stopper Spring (R)	
43	PBHMA0167Z	Stopper Spring (L)	
44	CS-2	Clip	
45	PBUEA0147Z	Plate	
46	NF-1862-V0	Clamper	
47	PBUEA0146Z	Plate	
48	PBMDA0561Z	Plate	
49	PJQTB0004Z	Label	
50	PBDFA0175Z-J	Shaft	
51	PBMDA0577Z	Plate	
52	PBHGA0067Z	Rubber	
53	FFLAWBC510ZZ	Ball Bearing	
54	PBMEA0058Z	Shaft Holder	
55	RWPS5-050	Spacer	
56	DCM-4236A35	Damper Coupling	
57	PBMDA0576Z	Plate	
58	RS7016	Mount	
59	PBHEA0165Z	Sheet (ISO Code:PET)	
60	AL4	Clamper for KV-S6055W/WU/WN	
61	PBHDA0006Y	Screw	
62	UC3E1259L110	Magnetic Shield for KV-S6055WU/6050WU	
63	PBUEA0106Z	Plate	
64	F-WBC5-9ZZA	Ball Bearing	
65	PBAPX016045	INVERTER Board	
66	UC3E1259L80	Magnetic Shield for KV-S6055WU/6050WU	
67	PBQAA0825Z	Label	
306	XTN4+6FFX	Screw	
309	XTS3+8FFX	Screw	
311	XTW3+U6LFX	Screw	
312	XTW3+U6LFZ	Screw	
314	XTW3+U12LFX	Screw	
315	XUC3FY	E-ring	
316	XUC4FY	E-ring	
324	XYN3+B6FX	Screw	
326	XYN3+F6FX	Screw	
328	XYN3+C6FX	Screw	
335	XYN4+F8FX	Screw	
339	XXE3F3FPS	Screw	

Ref. No.	Part No.	Part Name & Description	Remarks
346	XNT3EFX	Nut	
347	XTW3+U10LFX	Screw	

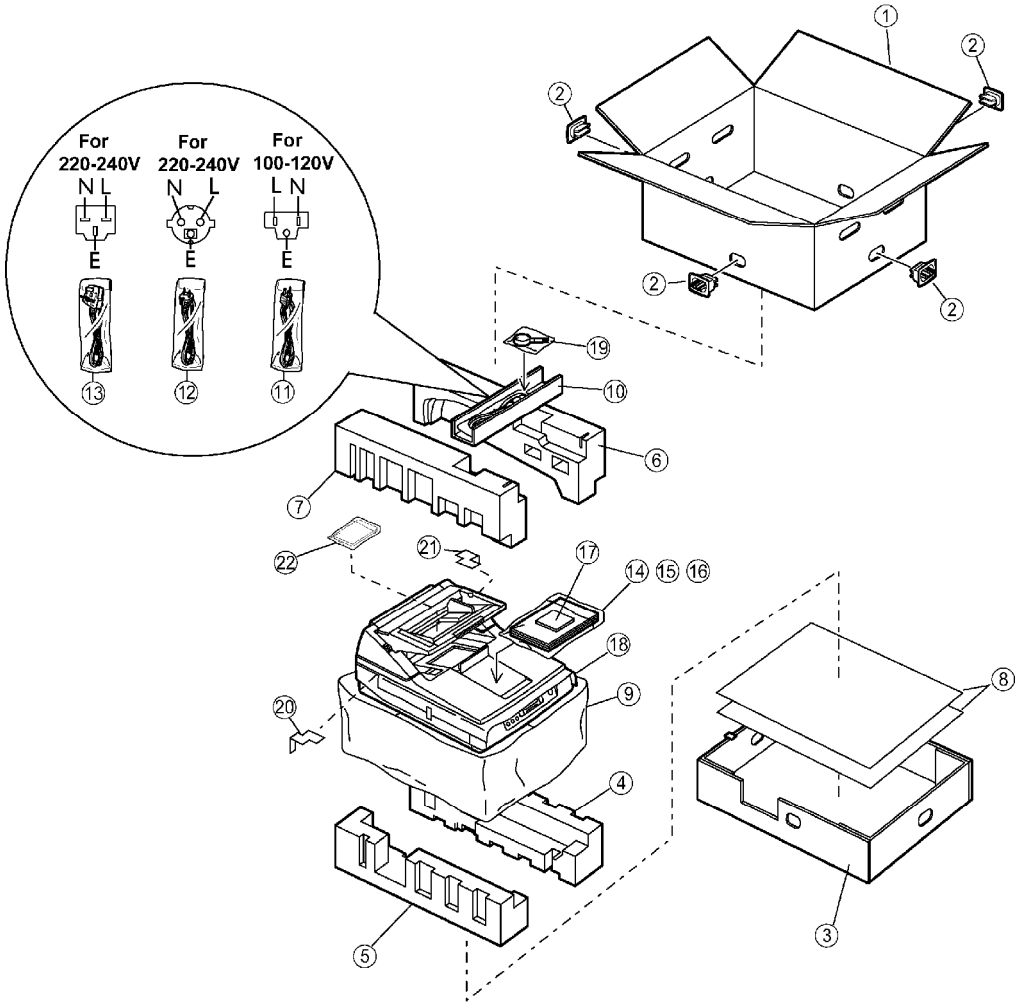
15.4. Power Unit



REPLACEMENT MECHANICAL PARTS LIST (Power Unit)

Ref. No.	Part No.	Part Name & Description	Remarks
1	PBAPX036055A	MAIN Board	(RTL)
2	EDS-1208U	Edge Saddle	
3	PBMDA0481Z	Fitting Plate	
4	PBAPX05265A	SCSI Board	(RTL)
5	PJMDB0024Z-J	SCSI Fitting Plate	
6	LWS1SV0BK	Edge Saddle	
7	PBAPX012065A	Power Board	(RTL)
8	PBJEA0090Z	Fan	
9	PJJRB0611Z	Cable (CN2005-CN862)	
10	PJJRB0608Z	Cable	
11	PJJRB0615Z	Cable	
12	PJJRB0659Z	Cable	
13	PBMDX0482Z	Bracket	
14	PJHXB0003Z	POWER Board Sheet (ISO Code:PVC)	
15	PBUVA0027Z	Fan Cover	
16	YMC10-0	Clamp	
17	PBMCA0092Z-J	Shield Cover	
18	PBAPX046055A	DRIVE Board	(RTL)
19	PBAPX066055A	MOTHER Board	(RTL)
20	PBAPX2816045Z	CARRIAGE HOME SENSOR Board	(RTL)
21	PBJEA0511Y-J	Cable for KV-S6055W/6050W	
21	PBJEA511Y-J1	Cable for KV-S6055WU/6050WU	
22	PBJEA0512Y-J	Cable for KV-S6055W/6050W	
22	PBJEA512Y-J1	Cable for KV-S6055WU/6050WU	
23	PBJEA0514Z	Cable	
24	PJJRB0613Z	Cable for KV-S6055W/WU	
24	PJJRB0657Z	Cable for KV-S6050W/WU	
25	PBAPX022065A	DC/DC Board	
26	PJJRB0616Z	Cable	
27	SJ-W2F4A03BB	Switch	
28	TMM6463	Clamper	
29	NF-1862-V0	Clamper	
30	PBJEA0515Z	Cable	
31	A-46-5	Handle	
32	PBJEA0513X	Cable (CCD Flexible) for KV-S6055W/6050W	
32	PBJEA0513X-J	Cable (CCD Flexible) for KV-S6055WU/6050WU	
34	RFC-6	Core for KV-S6055WU Only	
35	KI-100M	Clamper for KV-S6055WU Only	
310	XTW3+U30LFX	Screw	
311	XTW3+U6LFX	Screw	
313	XTW3+U8LFY	Screw	
321	XSN3+6FX	Screw	
325	XSN25+4FX	Screw	
326	XYN3+F6FX	Screw	
329	XYN4+F6FX	Screw	
330	XYN3+B6FX	Screw	
332	XSB26+4FX	Screw	

15.5. Packing



REPLACEMENT MECHANICAL PARTS LIST (Packing)

Ref. No.	Part No.	Part Name & Description
1	PJPGB0005Z-W	Outer Carton for KV-S6055W
1	PJPGB005Z-WU	Outer Carton for KV-S6055WU
1	PJPGB0006Z-W	Outer Carton for KV-S6050W
1	PJPGB006Z-WU	Outer Carton for KV-S6050WU
2	HP-601W2	Joint (ISO Code:PP)
3	PBPGA0339Y	Carton
4	PBPQA0110Z	Cushion (ISO Code:EPP)
5	PBPQA0111Z	Cushion (ISO Code:EPP)
6	PBPQA0113Z	Cushion (R) (ISO Code:EPP)
7	PBPQA0114Z	Cushion (L) (ISO Code:EPP)
8	PJPNB0028Z	Bottom Pad
9	PBPPA0025Z	Cover (ISO Code:PE)
10	PJPNB0027Z	Cushion
11	PBJEA0070Z	AC Cord (120V) for Type A-2
12	PBJA5Z	AC Cord (240V) for Type C-4
13	PBJA6Z	AC Cord (240V) for Type BF
14	PJQXB0002Z	Installation Manual
15	PJQMB0022Z	Maintenance Manual
16	PBQX70014Y	Warranty Card for KV-S6055W/6050W
17	PBHSA0055Z	Cleaning Paper
18	PBPPA0028Z	Sheet (ISO Code:PE)
19	PJIUA0001Z	Blower
20	PBPEA0031Z	Sheet
21	PBPEA0030Z	Sheet
22	PBQX90127Y	Hand Bill

16. REPLACEMENT PARTS LIST

IMPORTANT SAFETY NOTICE

Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

Note:

RTL (Retention Time Limited)

The marking (RTL) indicates that the Retention Time is limited for this item. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependent on the type of assembly, and in accordance with the laws governing part and product retention.

After the end of this period, the assembly will no longer be available.

Abbreviation of Part Name and Description

1. Resistor

Example

ALLOWANCE
F : ±1%
G : ±2%
J : ±5%
K : ±10%
M : ±20%

2. Capacitor

Example

ALLOWANCE
C : ±0.25pF
D : ±0.5pF
F : ±1pF
J : ±5%
K : ±10%
L : ±15%
M : ±20%
P : +100%, -0%
Z : +80%, -20%

16.1 MAIN CONTROL Board
16.2 SCSI Board
16.3 MOTHER Board
16.4 CCD Board
16.5 INVERTER Board
16.6 DRIVE Board
16.8 CARRIAGE HOME DETECTOR Board
16.7 PANEL Board
16.9 RETARD POSITION DETECTOR Board
16.10 DOUBLE FEED DETECTOR (R) Board
16.11 DOUBLE FEED DETECTOR (G) Board
16.12 STARTING POSITION SENSOR Board
16.13 STARTING POSITION LED Board
16.14 SIZE SENSOR Board
16.15 SIZE LED Board
16.16 ENDING POSITION SENSOR Board
16.17 ENDING POSITION LED Board

16.18 RELAY (SIDE) Board
16.19 HOPPER HOME SENSOR Board
16.20 DOCUMENT DETECTOR Board
16.21 DOCUMENT COVER DETECTOR Board
16.22 RELAY (BACK) Board
16.23 POWER Board
16.24 DC/DC Board

16.1. MAIN CONTROL Board

Ref. No.	Part No.	Part Name & Description
		RESISTORS
R1000/R1001	ERJ6GEYJ470	47 /J / 0.125W
R1002/R1003	ERJ3GEYJ100	10 / J / 0.1W
R1004/R1005	ERJ6GEYJ181	180 /J / 0.125W
R1006-R1009	ERJ3GEYJ102	1k / J / 0.1W
R1010/R1011	ERJ6GEYJ181	180 /J / 0.125W
R1012/R1013	ERJ3GEYJ102	1k / J / 0.1W
R1014-R1017	ERJ3GEYJ223	22k / J / 0.1W
R1018-R1021	ERJ3GEYJ561	560 / J / 0.1W
R1022-R1025	ERJ3GEYJ470	47 / J / 0.1W
R1026/R1027	ERJ3GEYJ223	22k / J / 0.1W
R1028/R1029	ERJ3GEYJ103	10k / J / 0.1W
R1032-R1039	ERJ3GEYJ220	22 / J / 0.1W
R1040	ERJ3GEYJ272	2.7k / J / 0.1W
R1041	ERJ3GEYJ222	2.2k / J / 0.1W
R1042-R1049	ERJ3GEYJ103	10k / J / 0.1W
R1050	ERJ3GEYJ222	2.2k / J / 0.1W
R1051-R1054	ERJ3GEYJ220	22 / J / 0.1W
R1055/R1056	ERJ3GEYJ101	100 / J / 0.1W
R1057	ERJ3GEYJ472	4.7k / J / 0.1W
R1058	ERJ3GEYJ101	100 / J / 0.1W
R1059/R1060	ERJ3GEYJ220	22 / J / 0.1W
R1061	ERJ3GEYJ472	4.7k / J / 0.1W
R1062-R1064	ERJ3GEYJ220	22 / J / 0.1W
R1065	ERJ3GEYJ103	10k / J / 0.1W
R1066-R1068	ERJ3GEYJ220	22 / J / 0.1W
R1069-R1077	ERJ3GEYJ103	10k / J / 0.1W
R1078-R1083	ERJ3GEYJ681	680 / J / 0.1W
R1084-R1091	ERJ3GEYJ103	10k / J / 0.1W
R1094/R1095	ERJ3GEYJ470	47 / J / 0.1W
R1098	ERJ3GEYJ223	22k / J / 0.1W
R1099	ERJ3GEYJ472	4.7k / J / 0.1W
R1100	ERJ3GEYJ470	47 / J / 0.1W
R1101/R1102	ERJ3GEYJ101	100 / J / 0.1W
R1103-R1105	ERJ3GEYJ103	10k / J / 0.1W
R1106	ERJ3GEYJ220	22 / J / 0.1W
R1107	ERJ3GEYJ101	100 / J / 0.1W
R1108-R1110	ERJ3GEYJ220	22 / J / 0.1W
R1111-R1115	ERJ3GEYJ223	22k / J / 0.1W
R1116	ERJ3GEYJ101	100 / J / 0.1W
R1117-R1120	ERJ3GEYJ220	22 / J / 0.1W
R1121-R1124	ERJ3GEYJ103	10k / J / 0.1W

Ref. No.	Part No.	Part Name & Description
R1125	ERJ3GEYJ101	100 / J / 0.1W
R1126-R1129	ERJ3GEYJ103	10k / J / 0.1W
R1130	ERJ3GEYJ104	100k / J / 0.1W
R1131	ERJ6GEYJ105	1M / J / 0.125W
R1132/R1133	ERJ3GEYJ472	4.7k / J / 0.1W
R1134/R1135	SR73K2ETD0.1	RESISTOR
R1138	ERJ3GEYJ103	10k / J / 0.1W
R1141	ERJ3GEYJ101	100 / J / 0.1W
R1142-R1144	ERJ3GEYJ221	220 / J / 0.1W
R1150	ERJ3GEYJ220	22 / J / 0.1W
R1151/R1152	ERJ3GEYJ103	10k / J / 0.1W
R1153/R1154	ERJ3GEYJ101	100 / J / 0.1W
R1158	ERJ3GEY0R00	0-ohm Jumper
R1162	ERJ3GEYJ103	10k / J / 0.1W
Z1000	MNR14E0AJ472	Resistor Array
Z1001/Z1002	MNR14E0AJ220	Resistor Array
Z1005	MNR14E0AJ472	Resistor Array
Z1008-Z1046	MNR14E0AJ220	Resistor Array
Z1055/Z1056	MNR14E0AJ103	Resistor Array
Z1057/Z1058	MNR14E0AJ472	Resistor Array
Z1059-Z1062	MNR14E0AJ220	Resistor Array
Z1063	MNR14E0AJ103	Resistor Array
Z1064-Z1076	MNR14E0AJ220	Resistor Array
Z1077-Z1082	MNR14E0AJ103	Resistor Array
Z1083/Z1084	MNR14E0AJ220	Resistor Array
Z1105-Z1107	MNR14E0AJ220	Resistor Array
Z1108-Z1112	MNR14E0AJ103	Resistor Array
		CAPACITORS
C1000	ECUX1E104ZFV	0.1 / Z / 25V
C1001	ECEV1AA221	220 / 10V
C1002/C1003	ECUX1E104ZFV	0.1 / Z / 25V
C1005/C1006	ECUX1E104ZFV	0.1 / Z / 25V
C1008-C1010	ECUX1E104ZFV	0.1 / Z / 25V
C1011	ECEV1AA221	220 / 10V
C1012-C1015	ECUX1E104ZFV	0.1 / Z / 25V
C1016-C1023	ECUX1H470JCV	47p / J / 50V
C1024/C1025	ECUX1E104ZFV	0.1 / Z / 25V
C1026-C1028	ECUX1H102KBV	1000p / K / 50V
C1029/C1030	ECEV1AA221	220 / 10V
C1031-C1034	ECUX1E104ZFV	0.1 / Z / 25V
C1035/C1036	ECEV1AA101SP	100 / 10V
C1037/C1038	ECUX1E104ZFV	0.1 / Z / 25V
C1043-C1052	ECUX1E104ZFV	0.1 / Z / 25V
C1053	ECEV1EA4R7SR	4.7 / 25V
C1054-C1065	ECUX1C105ZFW	1 / Z / 16V
C1066/C1067	ECUX1E104ZFV	0.1 / Z / 25V
C1068	ECUX1H101JCV	100p / J / 50V
C1070	ECUX1E104ZFV	0.1 / Z / 25V
C1071-C1073	ECUX1H101JCV	100p / J / 50V
C1074-C1082	ECUX1E104ZFV	0.1 / Z / 25V
C1083/C1084	ECUX1H102KBV	1000p / K / 50V
C1085/C1086	ECUX1E104ZFV	0.1 / Z / 25V
C1087/C1088	ECUX1H102KBV	1000p / K / 50V

Ref. No.	Part No.	Part Name & Description
C1089/C1090	ECUX1E104ZFV	0.1 / Z / 25V
C1091/C1092	ECUX1H102KBV	1000p / K / 50V
C1093/C1094	ECUX1E104ZFV	0.1 / Z / 25V
C1095/C1096	ECUX1H102KBV	1000p / K / 50V
C1097/C1098	ECUX1E104ZFV	0.1 / Z / 25V
C1099	ECUX1H102KBV	1000p / K / 50V
C1100/C1101	ECUX1E104ZFV	0.1 / Z / 25V
C1102	ECUX1H102KBV	1000p / K / 50V
C1103	ECUX1E104ZFV	0.1 / Z / 25V
C1104	ECUX1H103KBV	0.01 / K / 50V
C1105/C1106	ECUX1H102KBV	1000p / K / 50V
C1107	ECUX1E104ZFV	0.1 / Z / 25V
C1108	ECUX1H331JCV	330p / 50V
C1109	ECUX1H101JCV	100p / J / 50V
C1110/C1111	ECUX1H220JCV	22p / J / 50V
C1112/C1113	ECUX1E104ZFV	0.1 / Z / 25V
C1114	ECUX1H220JCV	22p / J / 50V
C1115/C1116	ECUX1H102KBV	1000p / K / 50V
C1117/C1118	ECUX1E104ZFV	0.1 / Z / 25V
C1119/C1120	ECUX1H102KBV	1000p / K / 50V
C1121/C1122	ECUX1E104ZFV	0.1 / Z / 25V
C1123/C1124	ECUX1H102KBV	1000p / K / 50V
C1125/C1126	ECUX1E104ZFV	0.1 / Z / 25V
C1127	ECUX1H102KBV	1000p / K / 50V
C1128	ECUX1E104ZFV	0.1 / Z / 25V
C1129	ECUX1H101JCV	100p / J / 50V
C1131	ECUX1E104ZFV	0.1 / Z / 25V
C1132-C1134	ECUX1H101JCV	100p / J / 50V
C1136	ECUX1E104ZFV	0.1 / Z / 25V
C1137-C1139	ECUX1H101JCV	100p / J / 50V
C1142	ECUX1H101JCV	100p / J / 50V
C1143/C1144	ECUX1E104ZFV	0.1 / Z / 25V
C1145/C1146	ECUX1H101JCV	100p / J / 50V
C1149/C1150	ECUX1E104ZFV	0.1 / Z / 25V
C1151/C1152	ECUX1H101JCV	100p / J / 50V
C1153-C1155	ECUX1E104ZFV	0.1 / Z / 25V
C1156-C1160	ECUX1H102KBV	1000p / K / 50V
C1161/C1162	ECUX1E104ZFV	0.1 / Z / 25V
C1163	ECUX1H102KBV	1000p / K / 50V
C1164-C1168	ECUX1E104ZFV	0.1 / Z / 25V
C1169/C1170	ECJ1VF1C474	0.47 / 16V
C1171/C1173	ECUX1E104ZFV	0.1 / Z / 25V
C1175	ECUX1H102KBV	1000p / K / 50V
C1176	ECUX1E104ZFV	0.1 / Z / 25V
C1177	ECEV1AA101SP	100 / 10V
C1178/C1179	ECUX1E104ZFV	0.1 / Z / 25V
C1180	ECUX1H220JCV	22p / J /50V
C1181/C1182	ECUX1H103KBV	0.01 / K / 50V
C1183	ECUX1H220JCV	22p / J /50V
C1184	ECUX1E104ZFV	0.1 / Z / 25V
C1185	ECUX1H102KBV	1000p / K / 50V
C1186	ECUX1H103KBV	0.01 / K / 50V
C1187-C1191	ECUX1E104ZFV	0.1 / Z / 25V
C1192	ECUX1H102KBV	1000p / K / 50V

Ref. No.	Part No.	Part Name & Description
C1193	ECUX1E104ZFV	0.1 / Z / 25V
C1194	ECUX1H102KBV	1000p / K / 50V
C1195	ECUX1E104ZFV	0.1 / Z / 25V
C1197	ECUX1H101JCV	100p / J / 50V
C1198	ECUX1H103KBV	0.01 / K / 50V
C1199	EEVFC1V470P	47 / 35V
C1200	ECUX1H101JCV	100p / J / 50V
C1201	ECUX1H103KBV	0.01 / K / 50V
C1202	ECUX1H102KBV	1000p / K / 50V
C1203	EEVFC1V470P	47 / 35V
C1204	30SC3R3M	CAPACITOR
C1208	ECUX1H220JCV	22p / J /50V
C1211-C1215	ECUX1H220JCV	22p / J /50V
C1216	ECUX1H473ZFV	0.047 / Z / 50V
C1217/C1218	ECUX1H102KBV	1000p / K / 50V
C1219	ECUX1E104ZFV	0.1 / Z / 25V
C1220	ECUX1H103KBV	0.01 / K / 50V
C1223	ECUX1H220JCV	22p / J /50V
C1224	4SVP100M	CAPACITOR
C1225	ECUX1H220JCV	22p / J /50V
C1226	4SVP100M	CAPACITOR
C1227/C1228	ECUX1H220JCV	22p / J /50V
C1229	EEVFC0J221P	220 / 6.3V
C1230	ECUX1H220JCV	22p / J /50V
C1231/C1232	EEVFC0J221P	220 / 6.3V
C1233	ECUX1H220JCV	22p / J /50V
C1234-C1238	EEVFC0J221P	220 / 6.3V
C1239-C1242	ECEV1AA101SP	100 / 10V
C1248-C1250	ECUX1H102KBV	1000p / K / 50V
C1253-C1255	ECUX1E104ZFV	0.1 / Z / 25V
C1256	ECUX1H101JCV	100p / J / 50V
C1257	ECUX1H103KBV	0.01 / K / 50V
C1258-C1260	ECUX1H101JCV	100p / J / 50V
C1261-C1265	ECUX1E104ZFV	0.1 / Z / 25V
C1273-C1278	ECUX1E104ZFV	0.1 / Z / 25V
C1279	ECUX1H103KBV	0.01 / K / 50V
	FILTERS and COILS	
Z1051-Z1054	EZAST11AAAJ	EMI FILTER (RC NETWORK)
Z1085/Z1086	EZAST11AAAJ	EMI FILTER (RC NETWORK)
Z1089-Z1104	EZAST13AAAJ	EMI FILTER (RC NETWORK)
L1000	BLM11A601SPT	CHIP INDUCTOR COIL
L1001/L1002	LQH4N220K04	COIL
L1003-L1018	BLM11A601SPT	CHIP INDUCTOR COIL
L1019	LQH4N220K04	COIL
L1020	BLM11A601SPT	CHIP INDUCTOR COIL
L1021	SLF12565T220	COIL
L1024-L1028	BLM11A601SPT	CHIP INDUCTOR COIL
	DIODES	
D1000	MA132A	DIODE
D1001-D1006	BR1102W	LED
D1008	MA132A	DIODE
D1009	D1FS4A-4063	DIODE

Ref. No.	Part No.	Part Name & Description
D1011	MA132A	DIODE
D1012/D1013	PJVDJADAN202	DIODE
D1101-D1106	BR1102W	LED
		TRANSISTORS
Q1000	UN2212	TRANSISTOR
Q1001-Q1004	2SA1037K	TRANSISTOR
Q1005	UN2212	TRANSISTOR
Q1006/Q1007	2SA1037K	TRANSISTOR
Q1008-Q1011	2SC2412K	TRANSISTOR
Q1014	2SC2412K	TRANSISTOR
Q1015-Q1017	UN2212	TRANSISTOR
Q1019-Q1021	UN2212	TRANSISTOR
		ICs
IC1000	HD74HCT245FP	IC
IC1001	SN74HC4066NS	IC
IC1002-IC1005	AK5482	IC
IC1006	SLA566THF0T	IC(GATE ARRAY)
IC1007	SG8002JA2697	IC
IC1008-IC1013	CY7C199-15VC	SRAM
IC1014	S-93C66ADFJ	IC(EEPROM)
IC1015	SN74HC245NS2	IC
IC1016	TC74AC273F	IC
IC1017	TC74AC138F	IC
IC1018	SN74HC08NS20	IC
IC1019	PST3642UR	IC
IC1020/IC1021	TC74AC138F	IC
IC1022	HD6432655A00	IC
IC1023	TC7W00FU	IC
IC1024	SN74LV32ANS2	IC
IC1027	PBVRX01S6055	FLASH MEMORY
IC1028	PBVRX02S6055	FLASH MEMORY
IC1029/IC1030	CY7C199-15VC	SRAM
IC1033	MD1421N-4072	IC (DC-DC CONVERTER)
IC1034	HD74HCT245FP	IC
IC1036	PST3628UR	IC
IC1037	HD74LV1GT08A	IC
		OTHERS
CN1000	175487-9	CONNECTOR
CN1001	1-175487-1	CONNECTOR
CN1002	175487-8	CONNECTOR
CN1003	PB175487-10	CONNECTOR
CN1004	LPC-30M2	CONNECTOR
CN1005	LPC-6M2	CONNECTOR
CN1006	176381-6	CONNECTOR
X1000	1AS200006AZ	OSCILLATOR
	PJMYX0001Z	HEAT SINK
	LPC-SP	JUMPER
	PJHXB0005Z	SHEET
	XYN3+J6FX	SCREW

16.2. SCSI Board

Ref. No.	Part No.	Part Name & Description
		RESISTORS
R601/R603	ERJ3GEY0R00	0-ohm Jumper
R604	ERJ3GEYJ560	56 / J / 0.1W
R606	ERJ3GEY0R00	0-ohm Jumper
R607	ERJ3GEYJ472	4.7k / J / 0.1W
R608/R609	ERJ3GEY0R00	0-ohm Jumper
R611	ERJ3GEY0R00	0-ohm Jumper
R616	ERJ3GEYJ220	22 / J / 0.1W
R617	ERJ3GEYJ472	4.7k / J / 0.1W
R618	ERJ3GEYJ223	22k / J / 0.1W
R619	SMD125-2	POLY SW
R622	ERJ3GEYJ103	10k / J / 0.1W
R623/R624	ERJ3GEY0R00	0-ohm Jumper
R626/R628	ERJ3GEY0R00	0-ohm Jumper
R630-R632	ERJ3GEY0R00	0-ohm Jumper
R634	ERJ3GEY0R00	0-ohm Jumper
R636	ERJ3GEY0R00	0-ohm Jumper
R638-R642	ERJ3GEY0R00	0-ohm Jumper
R644/R645	ERJ3GEYJ101	100 / J / 0.1W
R646-R649	ERJ3GEY0R00	0-ohm Jumper
R653-R657	ERJ3GEY0R00	0-ohm Jumper
R658	ERJ3GEYJ100	10 / J / 0.1W
R660/R662	ERJ3GEY0R00	0-ohm Jumper
R663-R668	ERJ3GEYJ100	10 / J / 0.1W
R669	ERJ3GEY0R00	0-ohm Jumper
R670	ERJ3GEYJ472	4.7k / J / 0.1W
R671	ERJ3GEYJ332	3.3k / J / 0.1W
R672	ERJ3GEYJ101	100 / J / 0.1W
R673-R675	ERJ3GEY0R00	0-ohm Jumper
R676-R679	ERJ3GEYJ100	10 / J / 0.1W
R681-R684	ERJ3GEYJ100	10 / J / 0.1W
R686	ERJ3GEYJ100	10 / J / 0.1W
R687-R693	ERJ3GEYJ103	10k / J / 0.1W
R694	ERJ3GEY0R00	0-ohm Jumper
R696	ERJ3GEY0R00	0-ohm Jumper
R699	ERJ3GEY0R00	0-ohm Jumper
R700/R701	ERJ3GEYJ472	4.7k / J / 0.1W
R703	ERJ3GEYJ102	1k / J / 0.1W
R706	ERJ3GEY0R00	0-ohm Jumper
R712	ERJ3GEYJ100	10 / J / 0.1W
R713	ERJ3GEY0R00	0-ohm Jumper
R715/R716	ERJ3GEYJ223	22k / J / 0.1W
R717	ERJ3GEY0R00	0-ohm Jumper
R719	ERJ3GEYJ470	47 / J / 0.1W
R730	ERJ3GEY0R00	0-ohm Jumper
R734	ERJ3GEYJ103	10k / J / 0.1W
R736	ERJ3GEYJ220	22 / J / 0.1W
R742	ERJ3GEYJ103	10k / J / 0.1W
R766	ERJ3GEY0R00	0-ohm Jumper

Ref. No.	Part No.	Part Name & Description
R767	ERJ3GEYJ472	4.7k / J / 0.1W
R771/R776	ERJ3GEY0R00	0-ohm Jumper
Z601-Z604	MNR14E0AJ103	Resistor Array
Z606-Z613	MNR14E0AJ100	Resistor Array
Z615-Z641	MNR14E0AJ100	Resistor Array
Z642-Z645	MNR14E0AJ103	Resistor Array
Z646-Z651	MNR14E0AJ220	Resistor Array
Z653/Z654	MNR14E0AJ220	Resistor Array
Z656	MNR14E0AJ103	Resistor Array
Z657-Z660	MNR14E0AJ220	Resistor Array
Z661-Z668	MNR14E0AJ103	Resistor Array
		CAPACITORS
C604	ECUX1E104ZFV	0.1 / Z / 25V
C605	ECUX1H102KBV	1000p / K / 50V
C606	ECUX1E104ZFV	0.1 / Z / 25V
C608	ECUX1H102KBV	1000p / K / 50V
C612/C613	ECUX1E104ZFV	0.1 / Z / 25V
C614	ECUX1H102KBV	1000p / K / 50V
C615	ECUX1E104ZFV	0.1 / Z / 25V
C616	ECEV1CA100SR	10 / 16V
C617	ECEV1AA101SP	100 / 10V
C618-C620	ECUX1H101JCV	100p / J / 50V
C621/C622	ECEV1AA101SP	100 / 10V
C623/C624	ECUX1E104ZFV	0.1 / Z / 25V
C625/C626	ECUX1H101JCV	100p / J / 50V
C627/C628	ECEV1AA101SP	100 / 10V
C629/C630	ECUX1E104ZFV	0.1 / Z / 25V
C631	ECUX1H101JCV	100p / J / 50V
C633	ECUX1H102KBV	1000p / K / 50V
C634-C636	ECUX1E104ZFV	0.1 / Z / 25V
C640-C647	ECUX1E104ZFV	0.1 / Z / 25V
C648	ECUX1H101JCV	100p / J / 50V
C649	ECUX1E104ZFV	0.1 / Z / 25V
C650/C651	ECUX1H101JCV	100p / J / 50V
C652-C654	ECUX1E104ZFV	0.1 / Z / 25V
C655	ECUX1H101JCV	100p / J / 50V
C656	ECUX1E104ZFV	0.1 / Z / 25V
C657/C658	ECUX1H101JCV	100p / J / 50V
C659/C660	ECUX1E104ZFV	0.1 / Z / 25V
C661/C662	ECUX1H101JCV	100p / J / 50V
C663/C664	ECUX1E104ZFV	0.1 / Z / 25V
C665/C666	ECUX1H101JCV	100p / J / 50V
C667/C668	ECUX1E104ZFV	0.1 / Z / 25V
C669	ECUX1H101JCV	100p / J / 50V
C670/C671	ECUX1E104ZFV	0.1 / Z / 25V
C672	ECUX1H101JCV	100p / J / 50V
C673/C674	ECEV1AA101SP	100 / 10V
C675	ECUX1H101JCV	100p / J / 50V
C676	ECUX1E104ZFV	0.1 / Z / 25V
C678	ECUX1H101JCV	100p / J / 50V
C679	ECUX1E104ZFV	0.1 / Z / 25V
C680	ECUX1H101JCV	100p / J / 50V
C681	ECUX1E104ZFV	0.1 / Z / 25V

Ref. No.	Part No.	Part Name & Description
C682	ECUX1H101JCV	100p / J / 50V
C683	ECUX1E104ZFV	0.1 / Z / 25V
C684	ECUX1H101JCV	100p / J / 50V
C685	ECUX1E104ZFV	0.1 / Z / 25V
C686	ECUX1H101JCV	100p / J / 50V
C687	ECUX1E104ZFV	0.1 / Z / 25V
C688	ECUX1H101JCV	100p / J / 50V
C689	ECUX1E104ZFV	0.1 / Z / 25V
C690	ECUX1H101JCV	100p / J / 50V
C691-C701	ECUX1E104ZFV	0.1 / Z / 25V
C702	ECUX1H101JCV	100p / J / 50V
C703	ECUX1E104ZFV	0.1 / Z / 25V
C707-C710	ECUX1H101JCV	100p / J / 50V
C711-C714	ECUX1E104ZFV	0.1 / Z / 25V
C715	ECEV1AA101SP	100 / 10V
C716	ECUX1H101JCV	100p / J / 50V
C717	ECUX1E104ZFV	0.1 / Z / 25V
C718	ECUX1H101JCV	100p / J / 50V
C719	ECUX1H102KBV	1000p / K / 50V
C720	ECUX1E104ZFV	0.1 / Z / 25V
C721	ECUX1H120JCV	12p / J / 50V
C722	ECUX1E104ZFV	0.1 / Z / 25V
C723	ECUX1H101JCV	100p / J / 50V
C724	ECUX1E104ZFV	0.1 / Z / 25V
C725	ECUX1H101JCV	100p / J / 50V
C726	ECUX1E104ZFV	0.1 / Z / 25V
C727	ECUX1H101JCV	100p / J / 50V
C728	ECUX1E104ZFV	0.1 / Z / 25V
C729	ECUX1H101JCV	100p / J / 50V
C730	ECUX1E104ZFV	0.1 / Z / 25V
C731	ECEV1AA101SP	100 / 10V
C735	ECUX1H103KBV	0.01 / K / 50V
C736-C738	ECUX1H101JCV	100p / J / 50V
C739	ECUX1H103KBV	0.01 / K / 50V
C740-C742	ECUX1E104ZFV	0.1 / Z / 25V
C743	ECUX1H103KBV	0.01 / K / 50V
C744-C746	ECUX1H101JCV	100p / J / 50V
C747	ECUX1H103KBV	0.01 / K / 50V
C748-C750	ECUX1E104ZFV	0.1 / Z / 25V
C751-C753	ECUX1H101JCV	100p / J / 50V
C754-C756	ECUX1E104ZFV	0.1 / Z / 25V
C757-C759	ECUX1H101JCV	100p / J / 50V
C760-C762	ECUX1E104ZFV	0.1 / Z / 25V
C763	ECUX1H102KBV	1000p / K / 50V
C764	ECUX1H331JCV	330p / J / 50V
C765	ECUX1H102JCV	1000p / J / 50V
C766	ECEV1CA100SR	10 / 16V
C767/C768	ECUX1H101JCV	100p / J / 50V
C769	ECUX1E104ZFV	0.1 / Z / 25V
C770	ECEV1EA4R7SR	4.7 / 25V
C771	ECEV1AA101SP	100 / 10V
C772-C774	ECUX1H101JCV	100p / J / 50V
C775-C777	ECUX1E104ZFV	0.1 / Z / 25V
C778/C779	ECUX1H101JCV	100p / J / 50V

Ref. No.	Part No.	Part Name & Description
C780/C781	ECUX1E104ZFV	0.1 / Z / 25V
C782/C783	ECUX1H101JCV	100p / J / 50V
C784/C785	ECUX1E104ZFV	0.1 / Z / 25V
C786/C787	ECUX1H101JCV	100p / J / 50V
C788/C789	ECUX1E104ZFV	0.1 / Z / 25V
C790	ECEV1AA101SP	100 / 10V
C791	ECUX1H101JCV	100p / J / 50V
C793	ECUX1E104ZFV	0.1 / Z / 25V
C794	ECUX1H101JCV	100p / J / 50V
C795	ECUX1E104ZFV	0.1 / Z / 25V
C796	ECUX1H101JCV	100p / J / 50V
C799	ECUX1E104ZFV	0.1 / Z / 25V
C802	ECEV1AA101SP	100 / 10V
C809	ECUX1H101JCV	100p / J / 50V
C810	ECEV1AA101SP	100 / 10V
C812	ECUX1E104ZFV	0.1 / Z / 25V
C815	ECUX1H101JCV	100p / J / 50V
C816	ECEV1AA101SP	100 / 10V
C817/C818	ECUX1E104ZFV	0.1 / Z / 25V
C819	EEVFC0J221P	220 / 6.3V
C820	ECUX1H102KBV	1000p / K / 50V
C821-C823	EEVFC0J221P	220 / 6.3V
C824	ECEV1AA101SP	100 / 10V
C825	ECUX1E104ZFV	0.1 / Z / 25V
C826-C828	ECEV1AA101SP	100 / 10V
C829-C841	ECUX1E104ZFV	0.1 / Z / 25V
C842	ECUX1H101JCV	100p / J / 50V
C843	ECUX1E104ZFV	0.1 / Z / 25V
C844/C845	ECUX1H101JCV	100p / J / 50V
C846/C847	ECUX1E104ZFV	0.1 / Z / 25V
C848	ECEV1AA101SP	100 / 10V
C849	ECUX1E104ZFV	0.1 / Z / 25V
C850	ECUX1H102KBV	1000p / K / 50V
C900	ECUX1E104ZFV	0.1 / Z / 25V
C905	ECUX1H220JCV	22p / J /50V
C906-C912	ECUX1E104ZFV	0.1 / Z / 25V
		DIODES
D600	RB050L40TE25	DIODE
		COILS
L600/L602	BLM11A601SPT	CHIP INDUCTOR COIL
L605-L612	BLM11A601SPT	CHIP INDUCTOR COIL
L615-L617	BLM11A601SPT	CHIP INDUCTOR COIL
L620-L627	BLM11A601SPT	CHIP INDUCTOR COIL
L632	LQH4N220K04	COIL
		TRANSISTORS
Q600/Q601	UN2212	TRANSISTOR
Q603	UN2212	TRANSISTOR
		ICs
IC600	SG615PTJ-40M	OSCILLATOR
IC602	FAS236U	IC

Ref. No.	Part No.	Part Name & Description
IC603	BH9598AFP	IC
IC604/IC605	MB64164D102F	IC
IC606	CY7C199-15VC	IC
IC607	SG8002JF2697	IC
IC608	SG8002JF9000	IC
IC609	PI6C2509-133	IC
IC610	SN74HC245NS2	IC
IC611	SN74LV00ANS2	IC
IC612	SN74LV04ANS2	IC
IC613	SN74LV32ANS2	IC
IC614	SLA581THF0M	IC
IC615/IC616	TC7S04FU	IC
IC617	SM560BZD	IC
IC619/IC620	HD74HCT245FP	IC
IC621	SN74LV573ANS	IC
IC622	HD74LV245AFP	IC
IC623	SN74LV02ANS2	IC
	OTHERS	
CN600/CN601	FCN235D050GJ	CONNECTOR
CN602	176381-3	CONNECTOR
CN605	390195-6	CONNECTOR
SW600	SMS704	SWITCH

16.3. MOTHER Board

Ref. No.	Part No.	Part Name & Description
	RESISTORS	
R2001-R2016	ERJ3GEYJ104	100k / J / 0.1W
R2019	ERJ3GEYJ472	4.7k / J / 0.1W
R2020/R2021	ERJ3GEYJ102	1k / J / 0.1W
R2022	ERJ3GEYJ103	10k / J / 0.1W
R2023	ERJ3GEYJ472	4.7k / J / 0.1W
R2024/R2025	ERJ3GEYJ102	1k / J / 0.1W
R2026	ERJ3GEYJ103	10k / J / 0.1W
R2027	ERJ3GEYJ472	4.7k / J / 0.1W
R2028/R2029	ERJ3GEYJ102	1k / J / 0.1W
R2030	ERJ3GEYJ103	10k / J / 0.1W
R2031	ERJ3GEYJ472	4.7k / J / 0.1W
R2032/R2033	ERJ3GEYJ102	1k / J / 0.1W
R2034	ERJ3GEYJ103	10k / J / 0.1W
R2035	ERJ3GEYJ472	4.7k / J / 0.1W
R2036/R2037	ERJ3GEYJ102	1k / J / 0.1W
R2038	ERJ3GEYJ103	10k / J / 0.1W
R2039	ERJ3GEYJ472	4.7k / J / 0.1W
R2040/R2041	ERJ3GEYJ102	1k / J / 0.1W
R2042	ERJ3GEYJ103	10k / J / 0.1W
R2043	ERJ3GEYJ472	4.7k / J / 0.1W
R2044/R2045	ERJ3GEYJ102	1k / J / 0.1W
R2046	ERJ3GEYJ103	10k / J / 0.1W
R2047	ERJ3GEYJ472	4.7k / J / 0.1W
R2048/R2049	ERJ3GEYJ102	1k / J / 0.1W

Ref. No.	Part No.	Part Name & Description
R2050	ERJ3GEYJ103	10k / J / 0.1W
R2051	ERJ3GEYJ102	1k / J / 0.1W
R2052	ERJ3GEYJ391	390 / J / 0.1W
R2053-R2070	ERJ6GEYJ331	330 / J / 0.125W
R2071-R2086	ERJ3GEYJ472	4.7k / J / 0.1W
R2087-R2090	ERJ6GEYJ331	330 / J / 0.125W
R2091-R2103	ERJ3GEYJ151	150 / J / 0.1W
R2104	ERJ3GEYJ471	470 / J / 0.1W
R2105	ERJ3GEYJ472	4.7k / J / 0.1W
R2106	ERJ3GEYJ104	100k / J / 0.1W
R2107/R2108	ERJ3GEYJ472	4.7k / J / 0.1W
R2109	ERJ3GEYJ104	100k / J / 0.1W
R2110	ERJ3GEYJ103	10k / J / 0.1W
R2111-R2115	ERJ12YJ471	470 / J / 0.5W
R2117/R2118	ERJ6GEYJ181	180 /J / 0.125W
R2119-R2123	ERJ3GEYJ103	10k / J / 0.1W
R2992	ERJ3GEYJ222	2.2k / J / 0.1W
R2993	ERJ12YJ222	2.2k / J / 0.5W
R2994	ERJ3GEYJ223	22k / J / 0.1W
		CAPACITORS
C2001-C2007	ECUX1E104ZFV	0.1 / Z / 25V
C2008-C2016	ECUX1H102ZFV	1000p / Z / 50V
C2017/C2018	ECUX1E104ZFV	0.1 / Z / 25V
C2020-C2022	ECUX1E104ZFV	0.1 / Z / 25V
C2024-C2026	ECUX1E104ZFV	0.1 / Z / 25V
C2027	ECUX1H103KBV	0.01 / K / 50V
C2028	ECUX1E104ZFV	0.1 / Z / 25V
C2030-C2039	ECUX1E104ZFV	0.1 / Z / 25V
C2051/C2061	ECEV1EA101UP	100 / 25V
C2062/C2063	ECUX1E104ZFV	0.1 / Z / 25V
C2064-C2066	ECEV1EA101UP	100 / 25V
C2100-C2103	ECUX1E104ZFV	0.1 / Z / 25V
C2989/C2990	ECUX1H103KBV	0.01 / K / 50V
C2991/C2992	ECUX1E104ZFV	0.1 / Z / 25V
C2993-C2995	ECUX1H220JCV	22p / J /50V
C2996/C2997	ECUX1H101JCV	100p / J / 50V
		DIODES
D2996	D1FS4A-4063	DIODE
D2997	MA3091-M	DIODE
D2998	MA132A	DIODE
		TRANSISTORS
Q2002-Q2014	2SC2412K	TRANSISTOR
Q2997/Q2998	UN2212	TRANSISTOR
Q2999	2SJ462-T2	TRANSISTOR
		ICs
IC2001	SN74HC245NS2	IC
IC2002/IC2003	NJM2901M	IC
IC2004/IC2005	M62353FP75N	D/A CONVERTER
IC2006/IC2007	SN74HC245NS2	IC
IC2010	NJM78M12FA	IC

Ref. No.	Part No.	Part Name & Description
		OTHERS
CN2001	176379-6	CONNECTOR
CN2002	176379-3	CONNECTOR
CN2003	128A040S2B14	CONNECTOR
CN2004	S09B-XASK-1	CONNECTOR
CN2005	S12B-XASK-1	CONNECTOR
CN2007	DF1122DP2DSA	CONNECTOR
CN2008	SLD34R-1	CONNECTOR
CN2009	26FMZ-BT	CONNECTOR
CN2010	28FMZ-BT	CONNECTOR
CN2011	ILS4PS2L2EF	CONNECTOR
Z2001/Z2002	RXE065	POLY SWITCH(650mA)
Z2003	RXE017	POLY SWITCH(170mA)

16.4. CCD Board

Ref. No.	Part No.	Part Name & Description
		RESISTORS
R1	ERJ3GEYJ470	47 / J / 0.1W
R2	ERJ3GEYJ222	2.2k / J / 0.1W
R3	ERJ3GEYJ103	10k / J / 0.1W
R4	ERJ3GEYJ472	4.7k / J / 0.1W
R5	ERJ3GEYJ561	560 / J / 0.1W
R6	ERJ3GEYJ562	5.6k / J / 0.1W
R7	ERJ3GEYJ152	1.5k / J / 0.1W
R8	ERJ3GEYJ470	47 / J / 0.1W
R9	ERJ3GEY0R00	0-ohm Jumper
R10/R11	ERJ3GEYJ102	1k / J / 0.1W
R14	ERJ3GEYJ470	47 / J / 0.1W
R16/R17	ERJ3GEYJ470	47 / J / 0.1W
R20/R21	ERJ3GEYJ223	22k / J / 0.1W
R31	ERJ3GEYJ470	47 / J / 0.1W
R32	ERJ3GEYJ222	2.2k / J / 0.1W
R33	ERJ3GEYJ103	10k / J / 0.1W
R34	ERJ3GEYJ472	4.7k / J / 0.1W
R35	ERJ3GEYJ561	560 / J / 0.1W
R36	ERJ3GEYJ562	5.6k / J / 0.1W
R37	ERJ3GEYJ152	1.5k / J / 0.1W
R38	ERJ3GEYJ470	47 / J / 0.1W
R39	ERJ3GEY0R00	0-ohm Jumper
R40/R41	ERJ3GEYJ102	1k / J / 0.1W
R44	ERJ3GEYJ470	47 / J / 0.1W
R46/R47	ERJ3GEYJ470	47 / J / 0.1W
R51	ERJ3GEYJ220	22 / J / 0.1W
R52	ERJ3GEYJ221	220 / J / 0.1W
R53	ERJ3GEYJ681	680 / J / 0.1W
R54	ERJ3GEYJ102	1k / J / 0.1W
R55	ERJ6GEYJ270	27 / J / 0.125W
R60	ERJ3GEYJ470	47 / J / 0.1W
R61	ERJ3GEYJ220	22 / J / 0.1W
R62	ERJ3GEYJ221	220 / J / 0.1W
R63	ERJ3GEYJ681	680 / J / 0.1W
R64	ERJ3GEYJ102	1k / J / 0.1W
R65	ERJ6GEYJ270	27 / J / 0.125W
R67	ERJ3GEYJ103	10k / J / 0.1W
R68	ERJ3GEYJ681	680 / J / 0.1W
R69	ERJ3GEYJ102	1k / J / 0.1W
R71/R72	ERJ3GEYJ101	100 / J / 0.1W
R73/R74	ERJ3GEYJ2R2	2.2 / J / 0.1W
R75/R76	ERJ3GEYJ101	100 / J / 0.1W
R77/R78	ERJ3GEYJ2R2	2.2 / J / 0.1W
R79	ERJ3GEYJ101	100 / J / 0.1W
R80	ERJ3GEY0R00	0-ohm Jumper
R81	ERJ3GEYJ681	680 / J / 0.1W
R82	ERJ3GEYJ102	1k / J / 0.1W
R83	ERJ3GEYJ681	680 / J / 0.1W
R84	ERJ3GEYJ102	1k / J / 0.1W
R85	ERJ3GEYJ681	680 / J / 0.1W
R86	ERJ3GEYJ102	1k / J / 0.1W
R87	ERJ3GEYJ681	680 / J / 0.1W
R88	ERJ3GEYJ102	1k / J / 0.1W
R89-R91	ERJ3GEYJ470	47 / J / 0.1W
R92	ERJ3GEY0R00	0-ohm Jumper
R96-R98	ERJ3GEY0R00	0-ohm Jumper
		CAPACITORS
C1/C2	ECUX1E104ZFV	0.1 / Z / 25V
C3	ECEV1CA101P	100 / 16V
C4/C5	ECUX1E104ZFV	0.1 / Z / 25V
C6	ECEV1CA101P	100 / 16V
C7-C10	ECUX1E104ZFV	0.1 / Z / 25V
C11	ECEV1AA101SP	100 / 10V
C13	ECUX1E104ZFV	0.1 / Z / 25V
C14	ECEV1AA101SP	100 / 10V
C15/C16	ECUX1E104ZFV	0.1 / Z / 25V
C31	ECUX1E104ZFV	0.1 / Z / 25V
C32	ECEV1CA101P	100 / 16V
C33-C36	ECUX1E104ZFV	0.1 / Z / 25V
C37	ECEV1AA101SP	100 / 10V
C39	ECUX1E104ZFV	0.1 / Z / 25V
C40	ECEV1AA101SP	100 / 10V
C41	ECEV1AA330NP	33 / 10V
C42	ECUX1E104ZFV	0.1 / Z / 25V
C43	ECEV1AA330NP	33 / 10V
C44-C48	ECUX1E104ZFV	0.1 / Z / 25V
C49	ECEV1AA101SP	100 / 10V
C50-C52	ECUX1E104ZFV	0.1 / Z / 25V
C53	ECEV1AA101SP	100 / 10V
C54	ECUX1E104ZFV	0.1 / Z / 25V
C55	ECEV1AA101SP	100 / 10V
C56	ECUX1E104ZFV	0.1 / Z / 25V
C57	ECEV1AA101SP	100 / 10V
C58-C63	ECUX1E104ZFV	0.1 / Z / 25V
C64	ECUX1H101JCV	100p / J / 50V
C81/C82	ECUX1E104ZFV	0.1 / Z / 25V

Ref. No.	Part No.	Part Name & Description
C83	ECEV1AA101SP	100 / 10V
C84	ECUX1H101JCV	100p / J / 50V
C91-C94	ECEV1VA470P	47 / 35V
C99	ECUX1E104ZFV	0.1 / Z / 25V
	COILS	
L1-L5	LQH4N220K04	COIL
	DIODES	
D1	S1ZAS44062	DIODE
	TRANSISTORS	
Q1	2SC2412K	TRANSISTOR
Q2	IMT1A	TRANSISTOR
Q3	2SC2412K	TRANSISTOR
Q4	IMT1A	TRANSISTOR
Q5	2SA1037K	TRANSISTOR
Q6	2SC2412K	TRANSISTOR
Q7	2SA1037K	TRANSISTOR
Q8	2SC2412K	TRANSISTOR
Q9	IMB1A	TRANSISTOR
	ICs	
IC1	ILX510	IC
IC2	LM6171BIM	IC
IC3	SN74HC4066NS	IC
IC4	LM6171BIM	IC
IC5	M52992FP	IC
IC6	SN74HC14NS20	IC
IC7	SN74HC04NS20	IC
IC8/IC9	TC7S14F	IC
IC10	SN74HC14NS20	IC
CN1	SLD34S-1	CONNECTOR
CN2	PBS4B-PH	CONNECTOR
	PBHE25Z	Spacer

16.5. INVERTER Board

Ref. No.	Part No.	Part Name & Description
R201/R202	ERDS1TJ512	5.1k / J / 0.5W
R203	ERDS1TJ302	3k / J / 0.5W
R204/R205	ERDS2TJ102	1.0k / J / 0.25W
C201	50YXF33M	CAPACITOR
C202	HCP450V473J	CAPACITOR
C203	RPE132R223	CAPACITOR
Q201/Q202	2SC2690Q	TRANSISTOR
Q203	2SB1240TV2Q	TRANSISTOR
T201	99072	TRANSFORMER
L381	TSL1112S-471	COIL
CN201	B3B-PH-K-S	CONNECTOR
CN202	B2P4-VH	CONNECTOR
Z201	ICP-N38T104	IC PROTECTOR

16.6. DRIVE Board

Ref. No.	Part No.	Part Name & Description
		RESISTORS
R331	ERDS2TJ392	3.9k / J / 0.25W
R332	ERDS2TJ222	2.2k / J / 0.25W
R333	ERDS2TJ392	3.9k / J / 0.25W
R334	ERDS2TJ222	2.2k / J / 0.25W
R335/R336	ERDS2TJ472	4.7k / J / 0.25W
R341	ERDS2TJ912	9.1k / J / 0.25W
R342	ERDS2TJ112	1.1k / J / 0.25W
R343	ERDS2TJ472	4.7k / J / 0.25W
R344/R345	MPC710.22K	RESISTOR
R351	ERDS2TJ123	12k / J / 0.25W
R352	ERDS2TJ162	1.6k / J / 0.25W
R353	ERDS2TJ472	4.7k / J / 0.25W
R354/R355	MPC710.22K	RESISTOR
R361	ERDS2TJ153	15k / J / 0.25W
R362	ERDS2TJ202	2k / J / 0.25W
R363	ERDS2TJ472	4.7k / J / 0.25W
R364/R365	MPC710.47K	RESISTOR
R373/R374	ERDS2TJ102	1.0k / J / 0.25W
R377/R378	ERDS2TJ103	10k / J / 0.25W
R381	ER0S2TKF2942	RESISTOR
R382	ER0S2TKF1001	RESISTOR
R383	ERX12SJR22	0.22 / J / 0.5W
R384	ERDS2TJ562	5.6k / J / 0.25W
R385	ERDS2TJ272	2.7k / J / 0.25W
R386	ERDS2TJ152	1.5k / J / 0.25W
R387/R391	ERDS2TJ102	1.0k / J / 0.25W
R392	ERDS2TJ222	2.2k / J / 0.25W
R394-R396	ERDS2TJ472	4.7k / J / 0.25W
R472/R473	ERDS2TJ561	560 / J / 0.25W
R476/R477	ERG2SJ102P	1k / J / 2W
R480/R481	ERDS2TJ181	180 / J / 0.25W
R484	ERDS2TJ472	4.7k / J / 0.25W
Z391	EXBZ9E103J	RESISTOR
		CAPACITORS
C331	35YXF220MT8	CAPACITOR
C332	ECFF1H104ZF5	0.1 / Z / 50V
C341	50YXF33M	CAPACITOR
C342	ECFF1H104ZF5	0.1 / Z / 50V
C343	ECKF1H472KB5	4700p / K / 50V
C344	35YXF220MT8	CAPACITOR
C351	50YXF33M	CAPACITOR
C352	ECFF1H104ZF5	0.1 / Z / 50V
C353	ECKF1H472KB5	4700p / K / 50V
C354	35YXF220MT8	CAPACITOR
C361	50YXF33M	CAPACITOR
C362	ECFF1H104ZF5	0.1 / Z / 50V
C363	ECKF1H472KB5	4700p / K / 50V

Ref. No.	Part No.	Part Name & Description
C364	35YXF220MT8	CAPACITOR
C371	ECFF1H104ZF5	0.1 / Z / 50V
C372	35YXF220MT8	CAPACITOR
C373-C376	ECFF1H104ZF5	0.1 / Z / 50V
C381	ECKD3A331KBP	330p / K / 1kV
C382	35YXF220MT8	CAPACITOR
C383	50YXF220M	CAPACITOR
C391-C394	ECFF1H104ZF5	0.1 / Z / 50V
C482/C483	ECQV1H474JL3	0.47 / J / 50V
		COILS
L381	TSL1112S-471	COIL
		DIODES
D331/D332	HZS18-1	DIODE
D381	ERA91-02	DIODE
		TRANSISTORS
Q331/Q332	2SC3311A	TRANSISTOR
Q342/Q352	DTB113ZS	TRANSISTOR
Q362	DTB113ZS	TRANSISTOR
Q373/Q374	2SC3311A	TRANSISTOR
Q377/Q378	2SB1417-P	TRANSISTOR
Q381	2SD2137-P	TRANSISTOR
Q391	UN4213	TRANSISTOR
Q392-Q394	UN4221	TRANSISTOR
		ICs
IC341/IC351	SLA7044MLF87	IC
IC361	SLA7044MLF87	IC
IC371	M62353P	IC
IC381	NJM2360AD	IC
IC391-IC393	TC74HC273P	IC
		OTHERS
CN331	128A040P2B14	CONNECTOR
CN332	S4P-VH	CONNECTOR
CN341	S06B-XASK-1	CONNECTOR
CN351	S07B-XASK-1	CONNECTOR
CN361	S08B-XASK-1	CONNECTOR
CN372	S05B-XASK-1	CONNECTOR
Z341/Z351	ICP-N70T104	IC PROTECTOR
Z361/Z371	ICP-N70T104	IC PROTECTOR
Z381	ICP-N70T104	IC PROTECTOR
Z382	RXE020-AP	POLY SWITCH
	PBMYA0015Z	HEAT SINK
	XNG3BFC	NUT
	XYN3+J10FC	SCREW

16.7. PANEL Board

Ref. No.	Part No.	Part Name & Description
		RESISTORS
R543	ERDS2TJ332	3.3k / J / 0.25W
R544	ERDS2TJ103	10k / J / 0.25W
R545	ERDS2TJ332	3.3k / J / 0.25W
R546	ERDS2TJ182	1.8k / J / 0.25W
R547	ERDS2TJ681	680 / J / 0.25W
R548	ERDS2TJ331	330 / J / 0.25W
R549	ERDS2TJ182	1.8k / J / 0.25W
R550	ERDS2TJ151	150 / J / 0.25W
R551-R560	ERDS2TJ102	3.3k / J / 0.25W
R570-R573	ERDS2TJ103	10k / J / 0.25W
Z503/Z505	EXBZ5E103J	RESISTOR ARRAY
Z507/Z508	EXBZ5E103J	RESISTOR ARRAY
		CAPACITORS
C544	ECQV1H224JL	0.22 / J / 50V
C545/C546	RPE132F104	CAPACITOR
C547	ECEA1AKS101	100 / 10V
C548/C549	RPE132F104	CAPACITOR
C587-C589	RPE132F104	CAPACITOR
		DIODES
D513	GL9ED2	LED
		TRANSISTORS
Q536	UN4213	TRANSISTOR
Q538	UN4213	TRANSISTOR
Q539	UN4213	TRANSISTOR
		ICs
IC508/IC509	SN74HC365N	IC
IC510	RCM7065X-B	LIQUID CRYSTAL DISPLAY
		OTHERS
BZ501	PKM22EPP4002	BUZZER
CN536	DF11-22DP2DS	CONNECTOR
SW501-SW510	EVQ23405R	SWITCH
	FFC14AMEP1	CONNECTOR
	C-2005	SPACER
	XNG2EFX	NUT
	XYN2+J12FX	SCREW

16.8. CARRIAGE HOME DETECTOR Board

Ref. No.	Part No.	Part Name & Description
R501	ERDS2TJ331	330 / J / 0.25W
R502	ERDS2TJ103	10k / J / 0.25W
C501	RPE132F104	CAPACITOR
Q501	2SC3311A	TRANSISTOR
IC501	TLP832	PHOTO INTERRUPTER
CN516	ILS4PS2L2EF	CONNECTOR

16.9. RETARD POSITION DETECTOR Board

Ref. No.	Part No.	Part Name & Description
R503	ERDS2TJ331	330 / J / 0.25W
R504	ERDS2TJ103	10k / J / 0.25W
C502	RPE132F104	CAPACITOR
Q502	2SC3311A	TRANSISTOR
IC502	TLP832	PHOTO INTERRUPTER
CN517	PBILS5PS2L2	CONNECTOR

16.10. DOUBLE FEED DETECTOR (R) Board

Ref. No.	Part No.	Part Name & Description
R533	ERDS2TJ392	3.9k / J / 0.25W
R534	ERDS2TJ104	100k / J / 0.25W
R535	ERDS2TJ393	39k / J / 0.25W
R536	ERDS2TJ823	82k / J / 0.25W
R537	ERDS2TJ124	120k / J / 0.25W
R538	ERDS2TJ153	15k / J / 0.25W
R539	ERDS2TJ822	8.2k / J / 0.25W
R540	ERDS2TJ104	100k / J / 0.25W
R541	ERDS2TJ153	15k / J / 0.25W
R542	ERDS2TJ102	1.0k / J / 0.25W
C536	ECQB1H103JF3	0.01 / J / 50V
C537/C538	ECQV1H104JL3	0.1 / 50V
C539	ECQB1H222JF	2200p / J / 50V
C540	ECQB1H103JF3	0.01 / J / 50V
C541	ECQV1H104JL3	0.1 / 50V
C542	ECQB1H103JF3	0.01 / J / 50V
C543	ECEA1EKS100	10 /25V
D512	MA165	DIODE
D516	PB103AT	THERMISTOR
IC507	NJM2082D	OPERATIONAL AMP.
CN535	PBILS6PS2T2	CONNECTOR
X502	MA40S4R	SUPERSONIC WAVE SENSOR
	PBHRA0201Z	SPACER

16.11. DOUBLE FEED DETECTOR (G) Board

Ref. No.	Part No.	Part Name & Description
R528	ERDS2TJ822	8.2k / J / 0.25W
R529	ERDS2TJ222	2.2k / J / 0.25W
R530	ERDS2TJ103	10k / J / 0.25W
R531	ERDS2TJ102	1.0k / J / 0.25W
R532	ERDS2TJ103	10k / J / 0.25W
C535	RPE132F104	CAPACITOR
C553	ECEA1EKS100	10 / 25V
C554	ECEA1VKS100	10 / 35V
Q531	2SC3311A	TRANSISTOR
Q532	2SA1309A	TRANSISTOR
Q533/Q534	2SC3311A	TRANSISTOR
Q535	UN4213	TRANSISTOR
CN534	PBILS8PS2T2	CONNECTOR
X501	MA40S4S	OSCILLATOR
	PBHRA0201Z	SPACER

16.12. STARTING POSITION SENSOR Board

Ref. No.	Part No.	Part Name & Description
R505	ERDS2TJ103	10k / J / 0.25W
R506	ERDS2TJ102	1.0k / J / 0.25W
R507	ERDS2TJ223	22k / J / 0.25W
R508	ERDS2TJ222	2.2k / J / 0.25W
R509	ERDS2TJ103	10k / J / 0.25W
C503/C504	ECQB1H103JF3	0.01 / J / 50V
C505	RPE132F104	CAPACITOR
C506	ECEA1EKS100	10 / 25V
C507/C508	ECBT1H102KB5	1000p / 50V
C509	RPE132F104	CAPACITOR
C571	RPE122E105	CAPACITOR
D515	MA165	DIODE
Q503	2SA1309A	TRANSISTOR
Q504	2SC3311A	TRANSISTOR
Q505	PN168	PHOTO TRANSISTOR
Q506	2SC3311A	TRANSISTOR
CN519	PBILS6PS2L2	CONNECTOR
CN520	PBILS7PS2L2	CONNECTOR
	PBHRA0055Z	SPACER

16.13. STARTING POSITION LED Board

Ref. No.	Part No.	Part Name & Description
D501	TLN119	LED
CN518	S5B-PH	CONNECTOR
	LH-5-2	SPACER

16.14. SIZE SENSOR Board

Ref. No.	Part No.	Part Name & Description
R510-R518	ERDS2TJ103	10k / J / 0.25W
C510-C527	ECBT1H102KB5	1000p / 50V
C551/C552	RPE132F104	CAPACITOR
C573-C581	RPE122E105	CAPACITOR
Q507	PN168	PHOTO TRANSISTOR
Q508	2SC3311A	TRANSISTOR
Q509	PN168	PHOTO TRANSISTOR
Q510	2SC3311A	TRANSISTOR
Q511	PN168	PHOTO TRANSISTOR
Q512	2SC3311A	TRANSISTOR
Q513	PN168	PHOTO TRANSISTOR
Q514	2SC3311A	TRANSISTOR
Q515	PN168	PHOTO TRANSISTOR
Q516	2SC3311A	TRANSISTOR
Q517	PN168	PHOTO TRANSISTOR
Q518	2SC3311A	TRANSISTOR
Q519	PN168	PHOTO TRANSISTOR
Q520	2SC3311A	TRANSISTOR
Q521	PN168	PHOTO TRANSISTOR
Q522	2SC3311A	TRANSISTOR
Q523	PN168	PHOTO TRANSISTOR
Q524	2SC3311A	TRANSISTOR
CN521	DF11-16DP2DS	CONNECTOR
	PBHRA0055Z	SPACER

16.15. SIZE LED Board

Ref. No.	Part No.	Part Name & Description
D502-D510	TLN119	LED
CN524	DF11-10DP2DS	CONNECTOR
	PBHRA0055Z	SPACER

16.16. ENDING POSITION SENSOR Board

Ref. No.	Part No.	Part Name & Description
R527	ERDS2TJ103	10k / J / 0.25W
C532	ECBT1H102KB5	1000p / 50V
C533	RPE132F104	CAPACITOR
C534	ECBT1H102KB5	1000p / 50V
C572	RPE122E105	CAPACITOR
Q529	PN168	PHOTO TRANSISTOR
Q530	2SC3311A	TRANSISTOR
CN531	PBB7B-PH	CONNECTOR
CN532	B8B-PH	CONNECTOR
	LH-5-2	SPACER

16.17. ENDING POSITION LED Board

Ref. No.	Part No.	Part Name & Description
D511	TLN119	LED
CN525	S5B-PH	CONNECTOR
CN526	PBS4B-PH	CONNECTOR
	PBHMA0170Z	PLATE
	PBHRA0055Z	SPACER

16.18. RELAY (SIDE) Board

Ref. No.	Part No.	Part Name & Description
R561	ERDS2TJ101	100 / J / 0.25W
C555	ECQV1H474JL3	0.47 / 50V
CN509	DF1124DP2DSA	CONNECTOR
CN510	DF11-10DPDSA	CONNECTOR
CN511	ILS7PS2T2EF	CONNECTOR
CN512	B8B-PH	CONNECTOR
CN514	ILS5PS2T2EF	CONNECTOR
	PAUX37802	GROUND LUG

16.19. HOPPER HOME SENSOR Board

Ref. No.	Part No.	Part Name & Description
R525	ERDS2TJ331	330 / J / 0.25W
R526	ERDS2TJ103	10k / J / 0.25W
C531	RPE132F104	CAPACITOR
Q528	2SC3311A	TRANSISTOR
IC506	TLP832	PHOTO INTERRUPTER
CN529	5597-04APB	CONNECTOR
CN530	PBB7B-PH	CONNECTOR

16.20. DOCUMENT DETECTOR Board

Ref. No.	Part No.	Part Name & Description
C570	RPE132F104	CAPACITOR
CN537	5597-04APB	CONNECTOR
CN538	PBS4B-PH	CONNECTOR
	LH-5-2	SPACER

16.21. DOCUMENT COVER DETECTOR Board

Ref. No.	Part No.	Part Name & Description
R521	ERDS2TJ331	330 / J / 0.25W
R522	ERDS2TJ103	10k / J / 0.25W
C529	RPE132F104	CAPACITOR
Q526	2SC3311A	TRANSISTOR
IC504	TLP832	PHOTO INTERRUPTER
CN527	PBB4B-PH	CONNECTOR

16.22. RELAY (BACK) Board

Ref. No.	Part No.	Part Name & Description
R519	ERDS2TJ331	330 / J / 0.25W
R520	ERDS2TJ103	10k / J / 0.25W
C528	RPE132F104	CAPACITOR
C582-C586	RPE132F104	CAPACITOR
Q525	2SC3311A	TRANSISTOR
IC503	TLP832	PHOTO INTERRUPTER
CN501	28FMZ-BT	CONNECTOR
CN502	PBILS8PS2T2	CONNECTOR
CN503	DF11-12DP2DS	CONNECTOR
CN504	26FMZ-ST	CONNECTOR
CN505	DF11-24DP2DS	CONNECTOR
CN513	S6B-PH	CONNECTOR
CN515	S5B-PH	CONNECTOR
CN522	DF1116DP2DSA	CONNECTOR

16.23. POWER Board

Ref. No.	Part No.	Part Name & Description	Remarks
		RESISTORS	
R801	ERDS1TJ105	1000k / J / 0.5W	⚠
R802/R803	ERDS1TJ124	120k / J / 0.5W	
R804	ERX2SJ4R7P	4.7 / J / 2W	
R805	ERDS2TJ103	10k / J / 0.25W	
R806	ERG2SJ100P	10 / J / 2W	
R807	MPC710.22K	RESISTOR	
R808	ERDS2TJ101	100 / J / 0.25W	
R809	ERDS1TJ100	10 / J / 0.5W	
R811	ER0S2TKF4701	RESISTOR	
R812	ERDS2TJ222	2.2k / J / 0.25W	
R813	ERDS2TJ681	680 / J / 0.25W	
R814-R816	ERDS1TJ333	33k / J / 0.5W	
R817	ERG2SJ150P	15 / J / 2W	
R818	ERDS2TJ103	10k / J / 0.25W	
R819	ERDS2TJ333	33k / J / 0.25W	
R820	ERDS2TJ472	4.7k / J / 0.25W	
R831	ERG2SJ101P	100 / J / 2W	
R832/R833	ERDS2TJ121	120 / J / 0.25W	
R834	ERDS2TJ101	100 / J / 0.25W	
R835	ER0S2TKF8871	RESISTOR	
R837	ER0S2TKF1001	RESISTOR	
R838	ERDS2TJ222	2.2k / J / 0.25W	
R839	ERDS2TJ332	3.3k / J / 0.25W	
R840/R841	ERDS2TJ103	10k / J / 0.25W	
R842	ERDS2TJ821	820 / J / 0.25W	
R843	ERDS2TJ120	12 / J / 0.25W	
R844	ERDS2TJ472	4.7k / J / 0.25W	
R845	ERDS2TJ470	47 / J / 0.25W	
R846	ERDS2TJ332	3.3k / J / 0.25W	
R847	ERG1SJ470P	47 / J / 1W	
		CAPACITORS	

Ref. No.	Part No.	Part Name & Description	Remarks
C801/C802	PA224-ZC	CAPACITOR	⚠
C803/C804	ECKATS222ME	2200p / 250V	⚠
C805/C806	250SXR560MC4	CAPACITOR	⚠
C807	ECKD3A101KB	100p / K / 1kv	
C808	ECKATS103MF	0.01 / 250V	⚠
C809	ECQE6473KF3	CAPACITOR	
C810	ECQB1H473JF3	0.047 / J / 50V	
C811	ECA2WHG4R7	4.7 / 450V	
C812	50YXF1M	CAPACITOR	
C813	50YXF47M	CAPACITOR	
C814	ECQB1H391JF3	390p / J / 50V	
C815	ECQV1H224JL	0.22 / J / 50V	
C816	ECQB1H473JF3	0.047 / J / 50V	
C817	ECQB1H682JF3	6800p / J / 50V	
C818	ECFF1H104ZF5	0.1 / Z / 50V	
C831	ECKD3A101KB	100p / K / 1kv	
C832	35YXF2200MKC	CAPACITOR	
C834	ECQV1H105JL3	1 / J / 50V	
C835	ECFF1H104ZF5	0.1 / Z / 50V	
C836	50YXF33M	CAPACITOR	
C837	50YXF10M	CAPACITOR	
		COILS	
L801/L802	ELF15N017A	LINE FILTER COIL	⚠
L803	ETQR37C014A	TRANSFORMER	⚠
L821	HK14S0804010	COIL	
L822/L823	AB4X2X4.5W	BEAD	
		DIODES	
D801	D3SBA60-4101	DIODE	⚠
D802	ERA22-10AVRB	DIODE	
D803	ERB44-10G1	DIODE	
D804/D805	ERA91-02	DIODE	
D806	RD24ESAB1	ZENER DIODE	
D807	MA165	DIODE	
D821	YG902C3R	DIODE	
D825	RD7.5ESAB3	ZENER DIODE	
D826	D1N60	DIODE	
D827	RD27ESAB4	ZENER DIODE	
D828-D831	MA165	DIODE	
		TRANSISTORS	
Q801	2SK2651-01MR	TRANSISTOR	⚠
Q802	2SD1994A-S	TRANSISTOR	
Q821	2SJ334	TRANSISTOR	
Q822	2SC3311A	TRANSISTOR	
		ICs	
IC801	STR83159	IC	⚠
IC802	PJVIFA5311P	IC	
IC803	HA17431PA	IC	

Ref. No.	Part No.	Part Name & Description	Remarks
IC804	HA17L431P	IC	
		OTHERS	
PC801/PC802	TLP621-D4GR	PHOTO DIODE	⚠
CN801	B2P3-VH	CONNECTOR	⚠
CN802	B11B-XASK-1	CONNECTOR	
CN803	B3B-EH	CONNECTOR	
F801/F802	PB215004	FUSE	⚠
T801	SRW3333ED609	TRANSFORMER	⚠
TH801	N100L12325JF	THERMISTOR	⚠
ZNR801/ZNR802	470NS10D-K0	VARISTOR	⚠
ZNR803/ZNR804	240NS10D-301	VARISTOR	⚠
	FA35-9051	INSULATE SHEET	
	PAUX37802	GROUND LUG	
	PBMYA0011Z	HEAT SINK	
	M1847	BUSHING	
	TJC6320	HOLDER	
	XNG3BFX	NUT (STEEL)	
	XTN3+8JFX	SCREW	
	XTW3+U8SFX	SCREW	
	XYN3+J10FX	SCREW	

16.24. DC/DC Board

Ref. No.	Part No.	Part Name & Description
		RESISTORS
R861	ERDS2TJ683	68k / J / 0.25W
R862	ERDS2TJ682	6.8k / J / 0.25W
R863	ERX12SJR56	0.56 / J / 0.5W
R864	ER0S2TKF5762	RESISTOR
R865	ER0S2TKF1242	RESISTOR
R866	ERX12SJR56	0.56 / J / 0.5W
R867	ER0S2TKF7871	RESISTOR
R868	ER0S2TKF3652	RESISTOR
R869	ERDS2TJ100	10 / J / 0.25W
R870	RUE300	SWITCH
		CAPACITORS
C861	50YXF330MT8	CAPACITOR
C862	ECQV1H104JL3	0.1 / J / 50V
C863	10YXF1000MT8	CAPACITOR
C864	35YXF330MT8	CAPACITOR
C865	ECQB1H681JF3	680 / J / 50V
C866	10YXF1000MT8	CAPACITOR
C867	ECFF1H104ZF5	0.1 / Z / 50V
C868	35YXF220MT8	CAPACITOR
C869	35YXF330MT8	CAPACITOR
C870	ECQB1H391JF3	390 / J / 50V
C871	10YXF1000MT8	CAPACITOR
C872	ECFF1H104ZF5	0.1 / Z / 50V

Ref. No.	Part No.	Part Name & Description
C873	35YXF220MT8	CAPACITOR
		DIODES
D861	YG802C06R	DIODE
D862	ERA91-02	DIODE
D863/D864	MA165	DIODE
D865	RD7.5ESAB3	ZENER DIODE
D866	RD5.1ESAB2	ZENER DIODE
D867	MA165	DIODE
D868	ERA91-02	DIODE
D869	MA165	DIODE
D870	RD7.5ESAB3	ZENER DIODE
D871	MA165	DIODE
D872	RD5.1ESAB2	ZENER DIODE
		COILS
L861	HK10S080-121	COIL
L862	RCH895-151K	COIL
L863	RCH895-221K	COIL
		ICs
IC861	NJM2367TLA20	IC
IC862	NJM2360AD	IC
IC863	NJM78M05FA	IC
IC865	NJM2360AD	IC
IC866	NJM79M05FA	IC
		OTHERS
CN861	B11B-XASK-1	CONNECTOR
CN862	B12B-XASK-1	CONNECTOR
	0SH-1030-MP	HEAT SINK
	XYN3+J8FX	SCREW

17. Schematic Diagram for printing with A4 size

17.1. MAIN CONTROL Board

17.2. SCSI Board

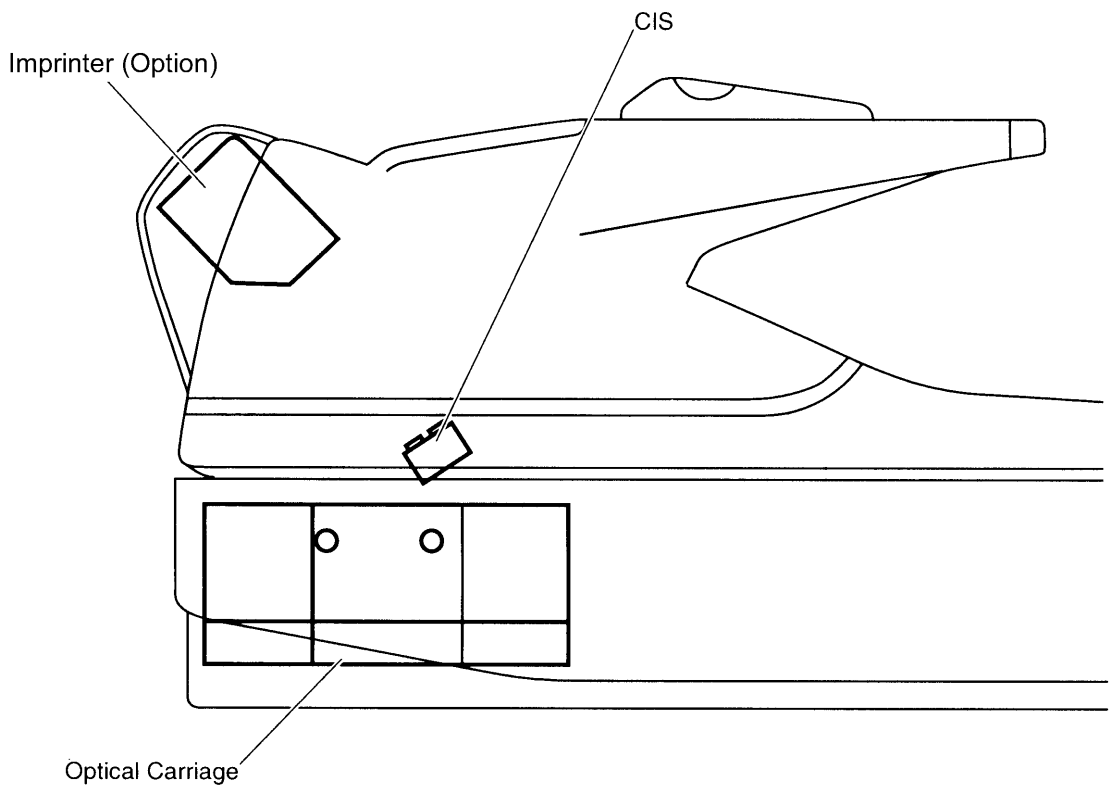
17.3. MOTHER Board

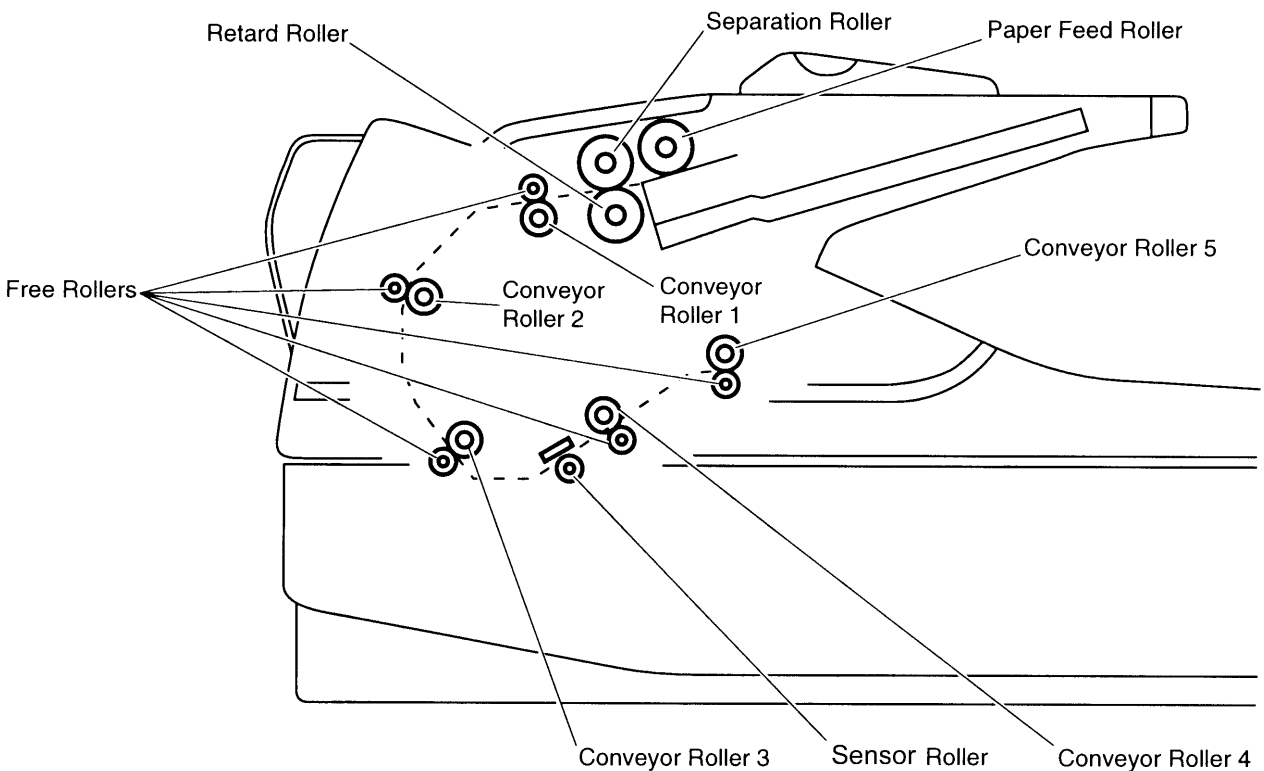
17.4. CCD and INVERTER Boards

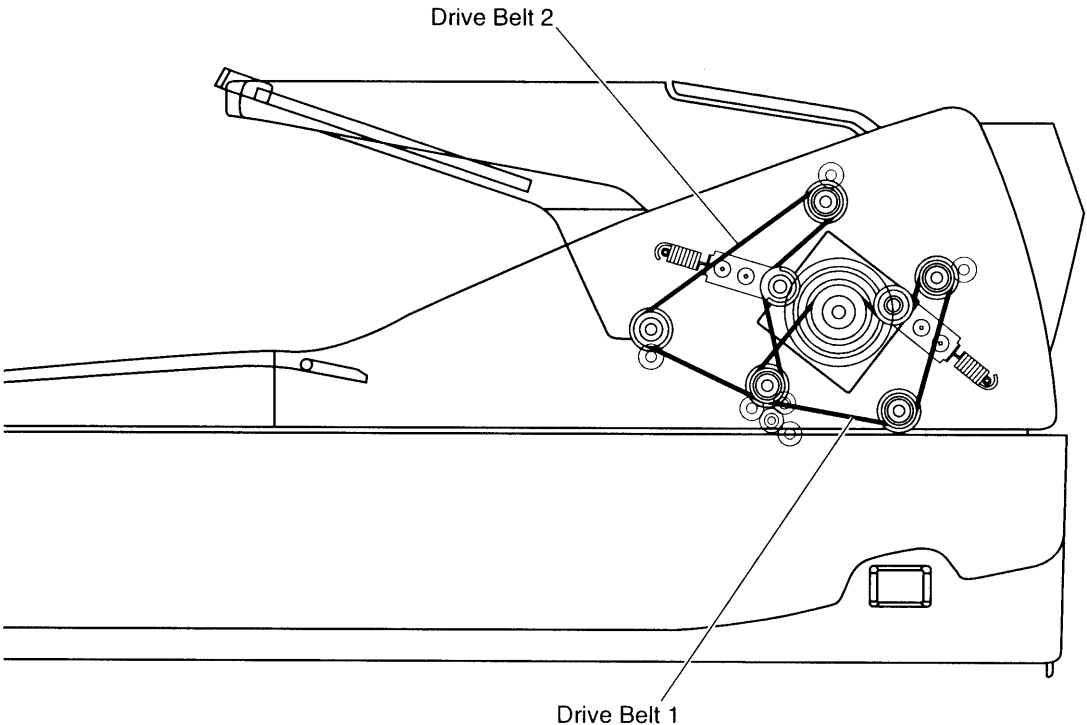
17.5. DRIVE and PANEL & CARRIAGE HOME DETECTOR Boards

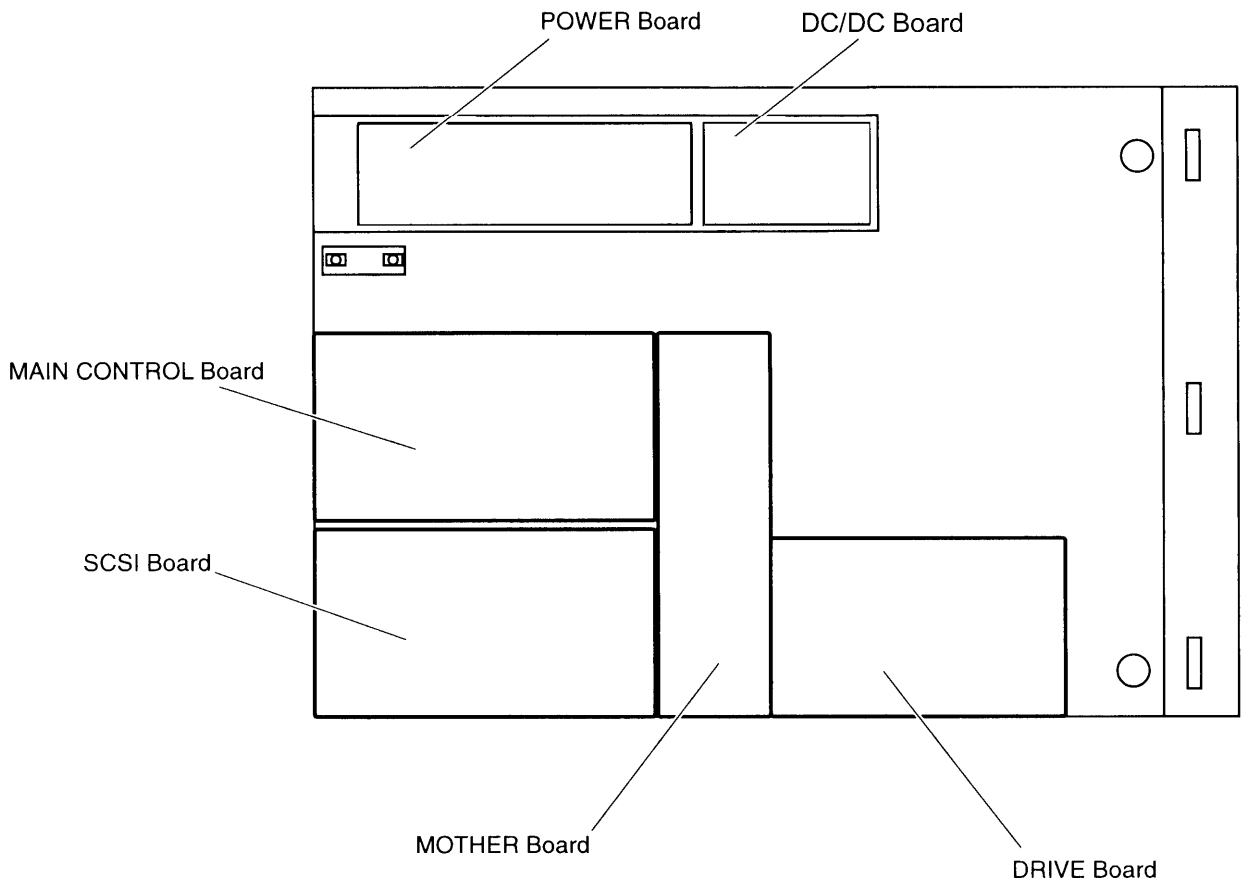
17.6. RELAY (BACK), RELAY (SIDE) and Sensor Boards

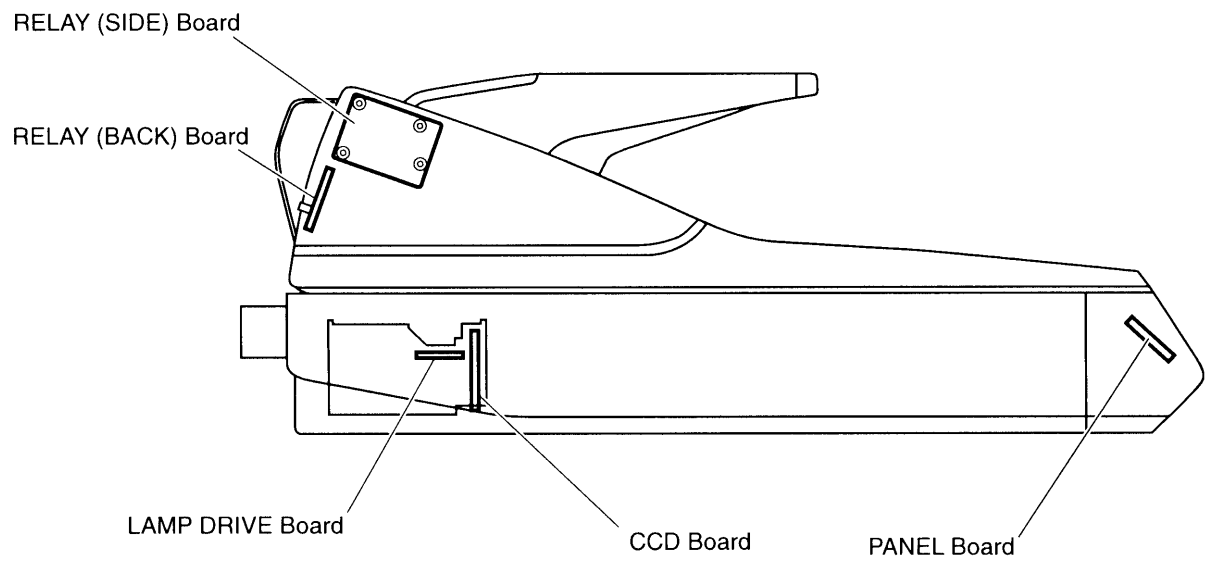
17.7. POWER and DC-DC CONVERTER Boards

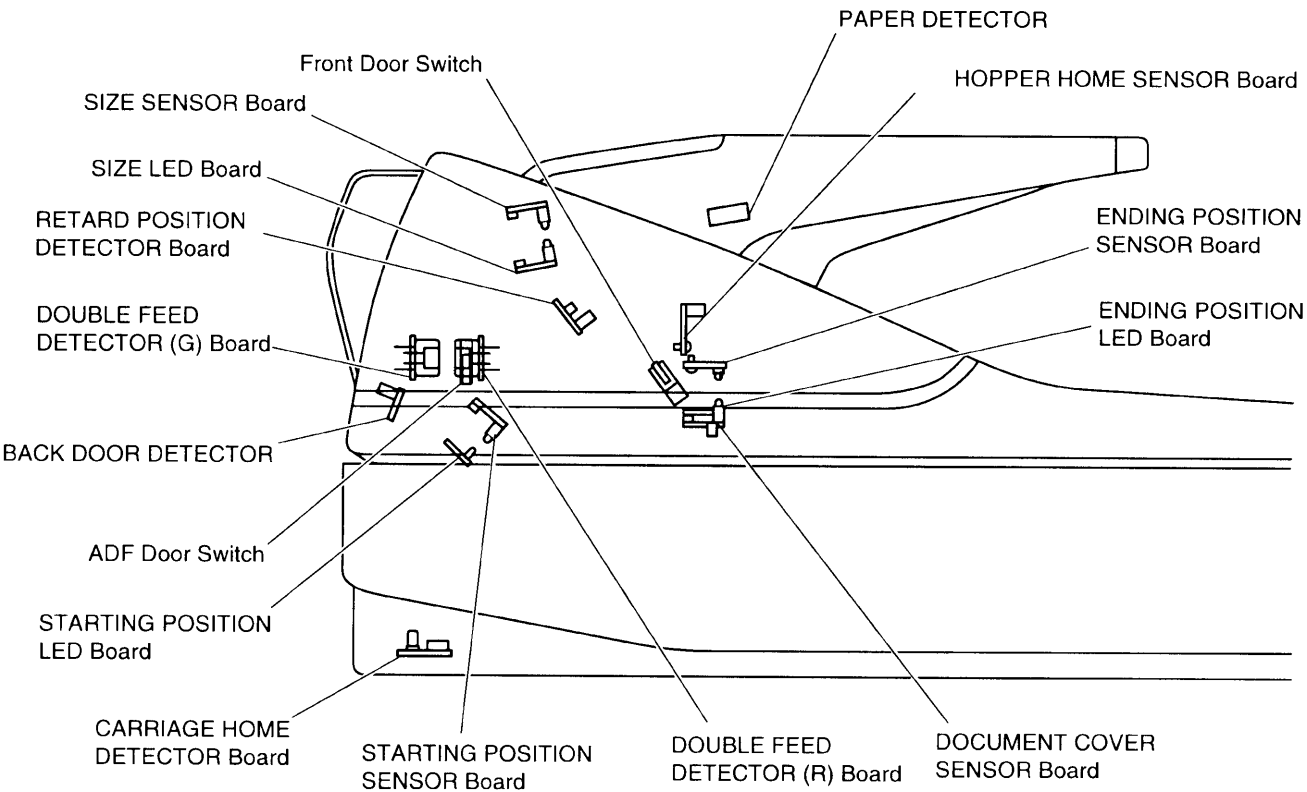

CIS
Imprinter (Option)
Optical Carriage

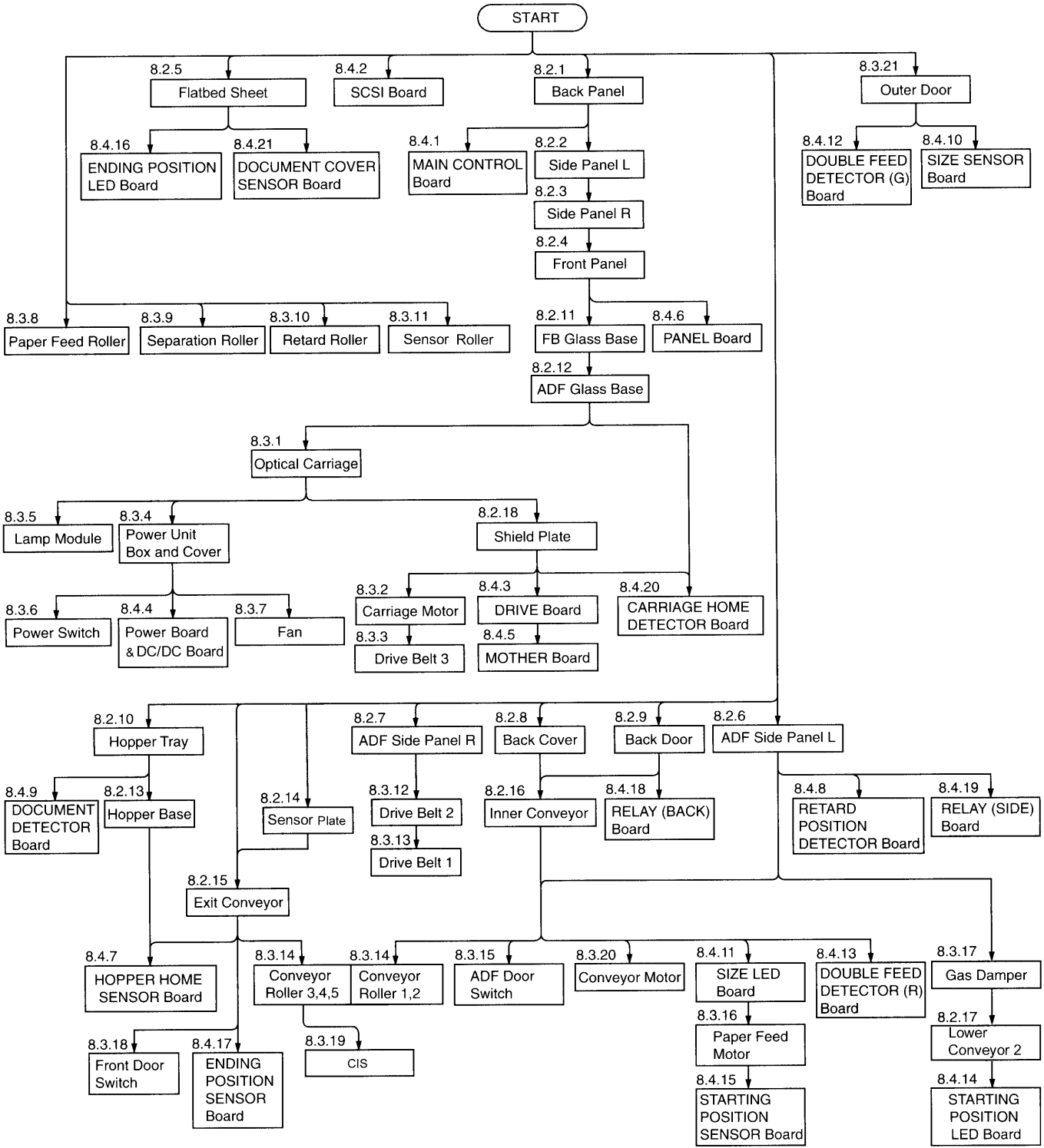

Retard Roller
Separation Roller
Paper Feed Roller
Free Rollers
Conveyor Roller 2
Conveyor Roller 1
Conveyor Roller 5
Conveyor Roller 3
Sensor Roller
Conveyor Roller 4

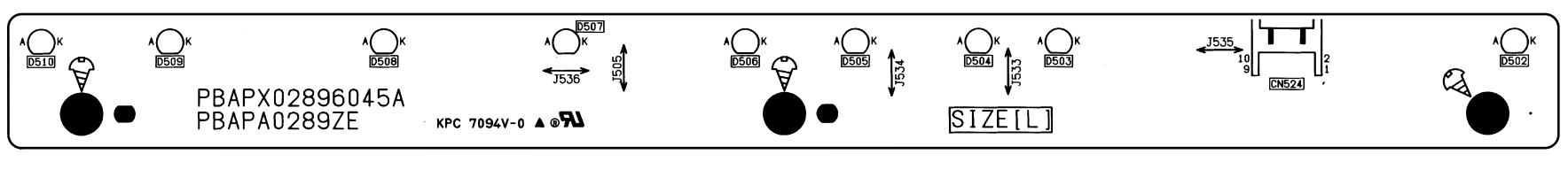

Drive Belt 2
Drive Belt 1

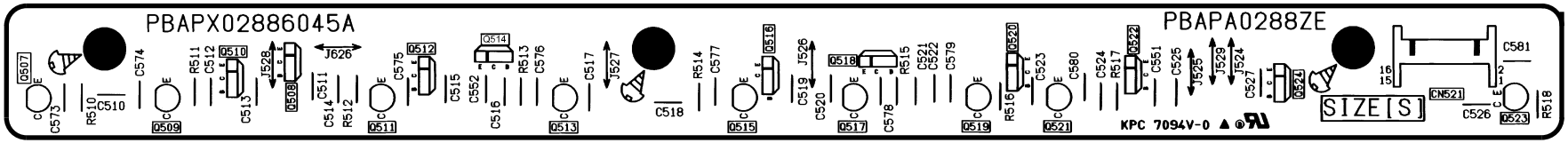

POWER Board
DC/DC Board
MAIN CONTROL Board
SCSI Board
MOTHER Board
DRIVE Board

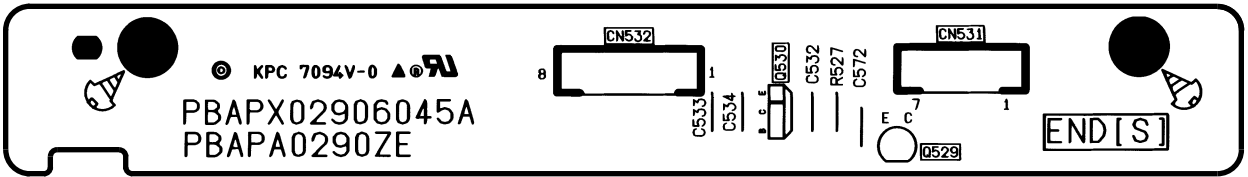

RELAY (SIDE) Board
RELAY (BACK) Board
LAMP DRIVE Board
CCD Board
PANEL Board

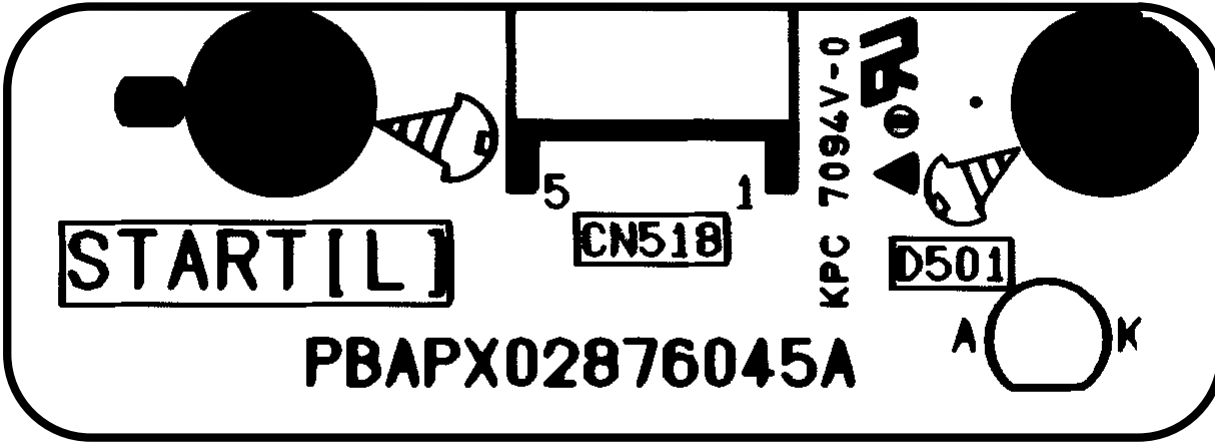

PAPER DETECTOR
Front Door Switch
HOPPER HOME SENSOR Board
SIZE SENSOR Board
SIZE LED Board
RETARD POSITION DETECTOR Board
ENDING POSITION SENSOR Board
DOUBLE FEED DETECTOR (G) Board
ENDING POSITION LED Board
BACK DOOR DETECTOR
ADF Door Switch
STARTING POSITION LED Board
CARRIAGE HOME DETECTOR Board
STARTING POSITION SENSOR Board
DOUBLE FEED DETECTOR (R) Board
DOCUMENT COVER SENSOR Board

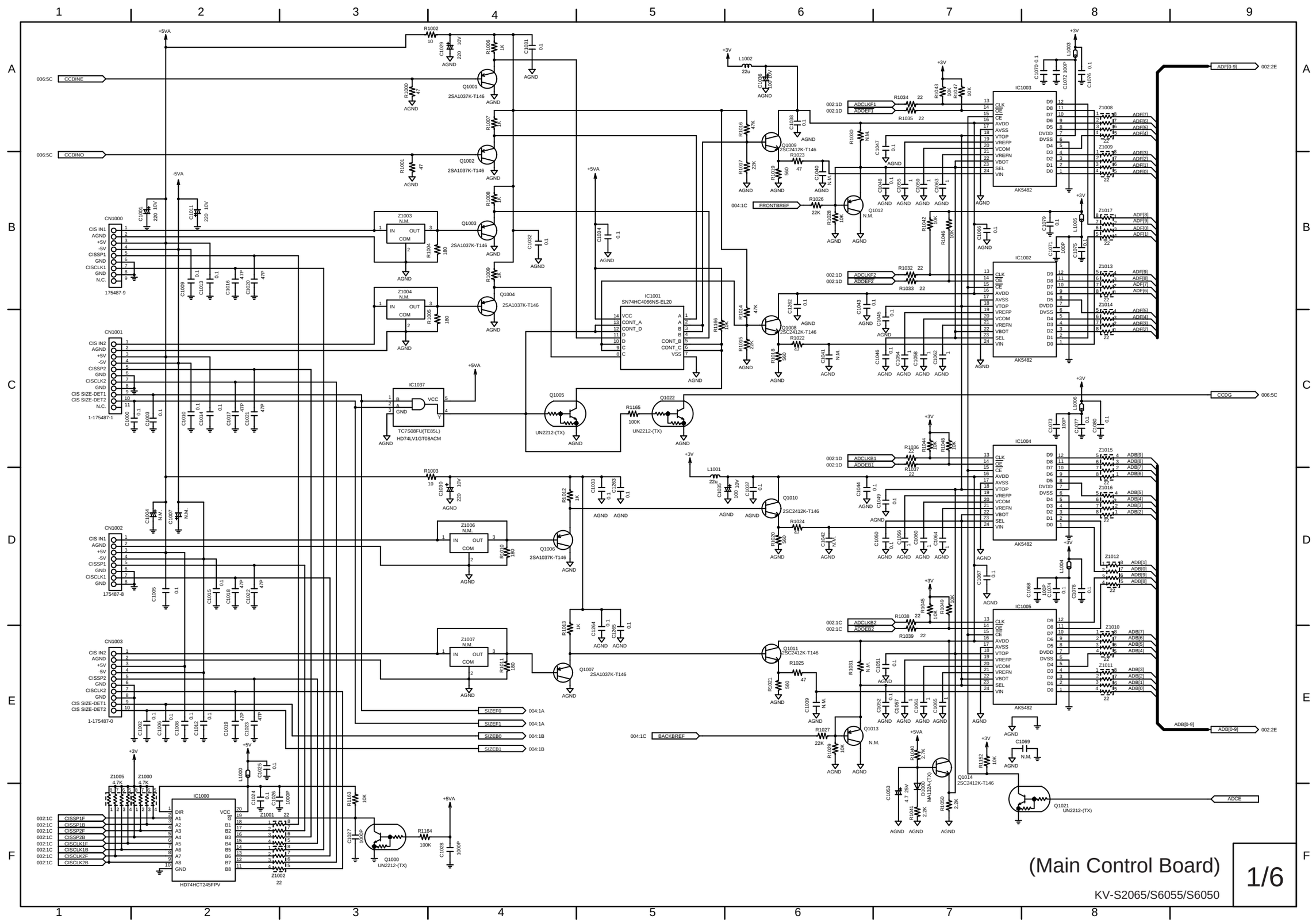

START
8.2.5
Flatbed Sheet
8.4.2
SCSI Board
8.2.1
Back Panel
8.3.21
Outer Door
8.4.16
ENDING POSITION LED Board
8.4.21
DOCUMENT COVER SENSOR Board
8.4.1
MAIN CONTROL Board
8.2.2
Side Panel L
8.2.3
Side Panel R
8.2.4
Front Panel
8.4.12
DOUBLE FEED DETECTOR (G) Board
8.4.10
SIZE SENSOR Board
8.3.8
Paper Feed Roller
8.3.9
Separation Roller
8.3.10
Retard Roller
8.3.11
Sensor Roller
8.2.11
FB Glass Base
8.4.6
PANEL Board
8.2.12
ADF Glass Base
8.3.1
Optical Carriage
8.3.5
Lamp Module
8.3.4
Power Unit Box and Cover
8.2.18
Shield Plate
8.3.6
Power Switch
8.4.4
Power Board & DC/DC Board
8.3.7
Fan
8.3.2
Carriage Motor
8.4.3
DRIVE Board
8.4.20
CARRIAGE HOME DETECTOR Board
8.3.3
Drive Belt 3
8.4.5
MOTHER Board
8.2.10
Hopper Tray
8.2.7
ADF Side Panel R
8.2.8
Back Cover
8.2.9
Back Door
8.2.6
ADF Side Panel L
8.4.9
DOCUMENT DETECTOR Board
8.2.13
Hopper Base
8.2.14
Sensor Plate
8.3.12
Drive Belt 2
8.3.13
Drive Belt 1
8.2.16
Inner Conveyor
8.4.18
RELAY (BACK) Board
8.4.8
RETARD POSITION DETECTOR Board
8.4.19
RELAY (SIDE) Board
8.2.15
Exit Conveyor
8.4.7
HOPPER HOME SENSOR Board
8.3.14
Conveyor Roller 3,4,5
8.3.14
Conveyor Roller 1,2
8.3.15
ADF Door Switch
8.3.20
Conveyor Motor
8.4.11
SIZE LED Board
8.4.13
DOUBLE FEED DETECTOR (R) Board
8.3.17
Gas Damper
8.3.16
Paper Feed Motor
8.2.17
Lower Conveyor 2
8.3.18
Front Door Switch
8.4.17
ENDING POSITION SENSOR Board
8.3.19
CIS
8.4.15
STARTING POSITION SENSOR Board
8.4.14
STARTING POSITION LED Board

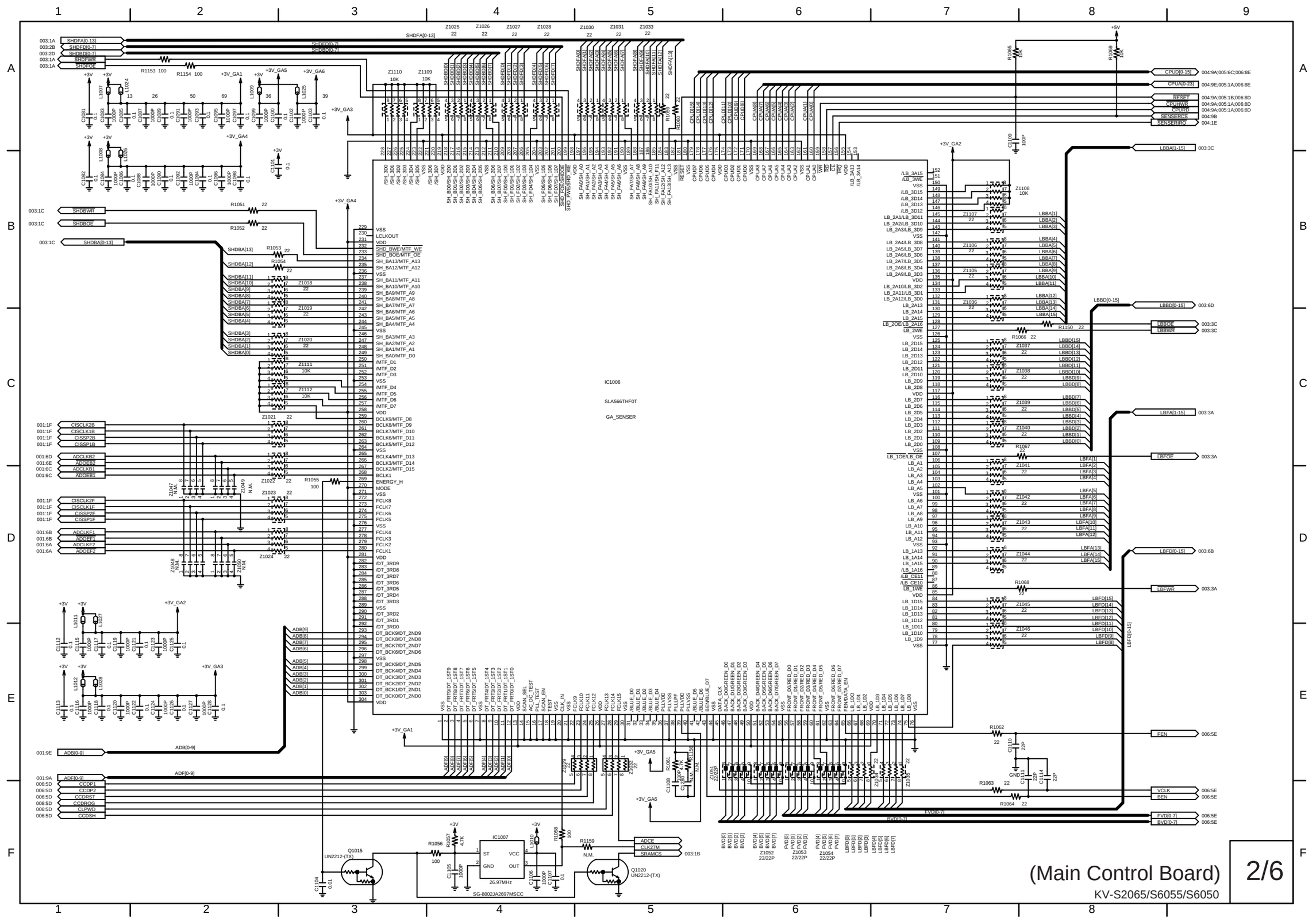

A K
D510
A K
D509
A K
D508
A K
D507
J536
J505
A K
D506
A K
D505
J534
A K
D504
A K
D503
J533
J535
10
9
2
1
CN524
A K
D502
PBAPX02896045A
PBAPA0289ZE
KPC 7094V-0
SIZE[L]

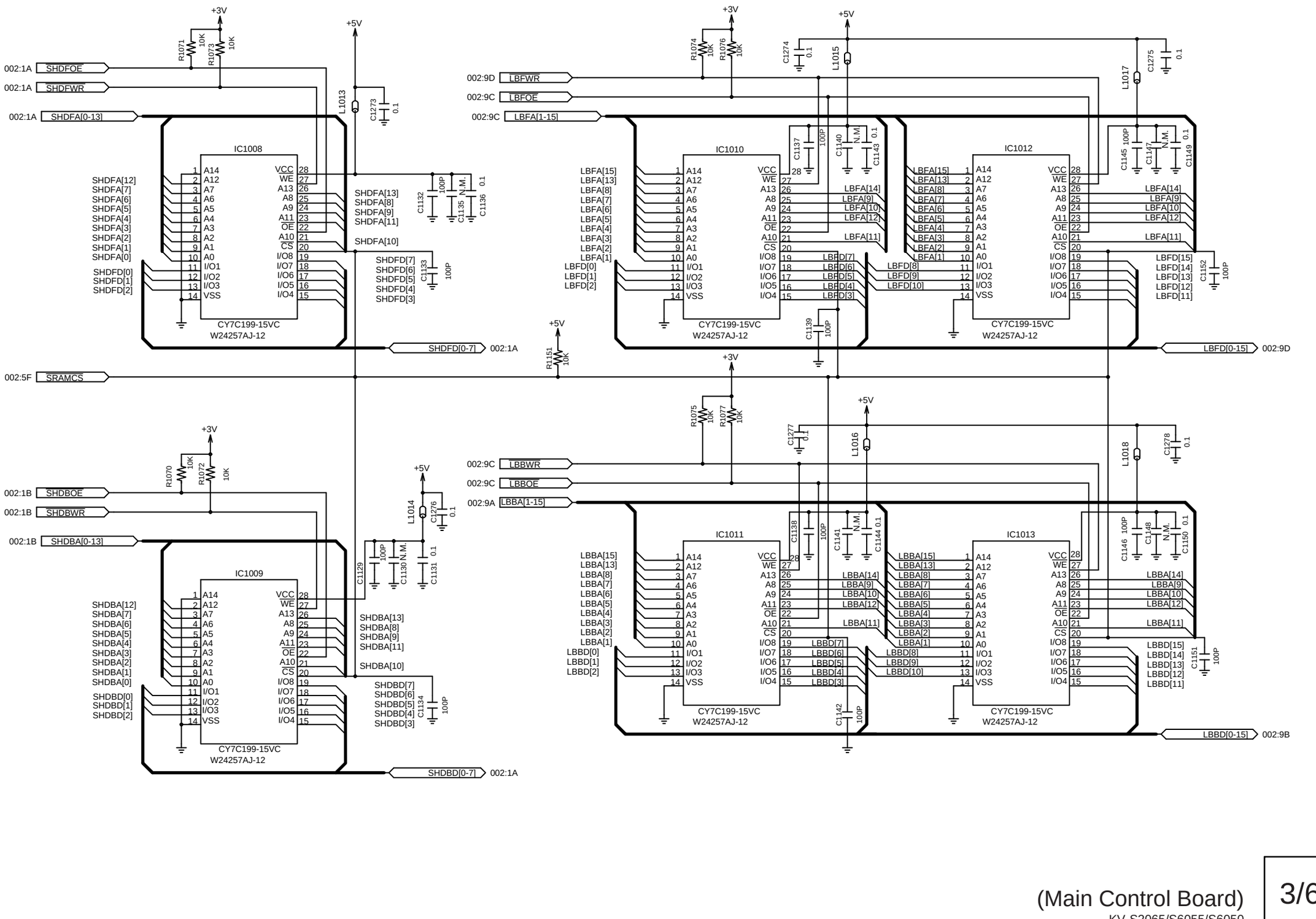

PBAPX02886045A
PBAPA0288ZE
KPC 7094V-0
SIZE[S]
Q507
C573
R510
C510
C574
Q509
R511
C512
Q510
C513
J528
Q508
J626
C511
R512
C514
C575
Q511
Q512
C515
C552
C516
Q514
R513
C576
Q513
C517
J527
C518
R514
C577
Q515
Q516
J526
C519
C520
Q517
Q518
R515
C578
C521
C522
C579
Q519
R516
Q520
C523
C580
Q521
C524
R517
Q522
C551
C525
C525
J529
C524
C527
Q524
C581
CN521
C526
Q523
R518

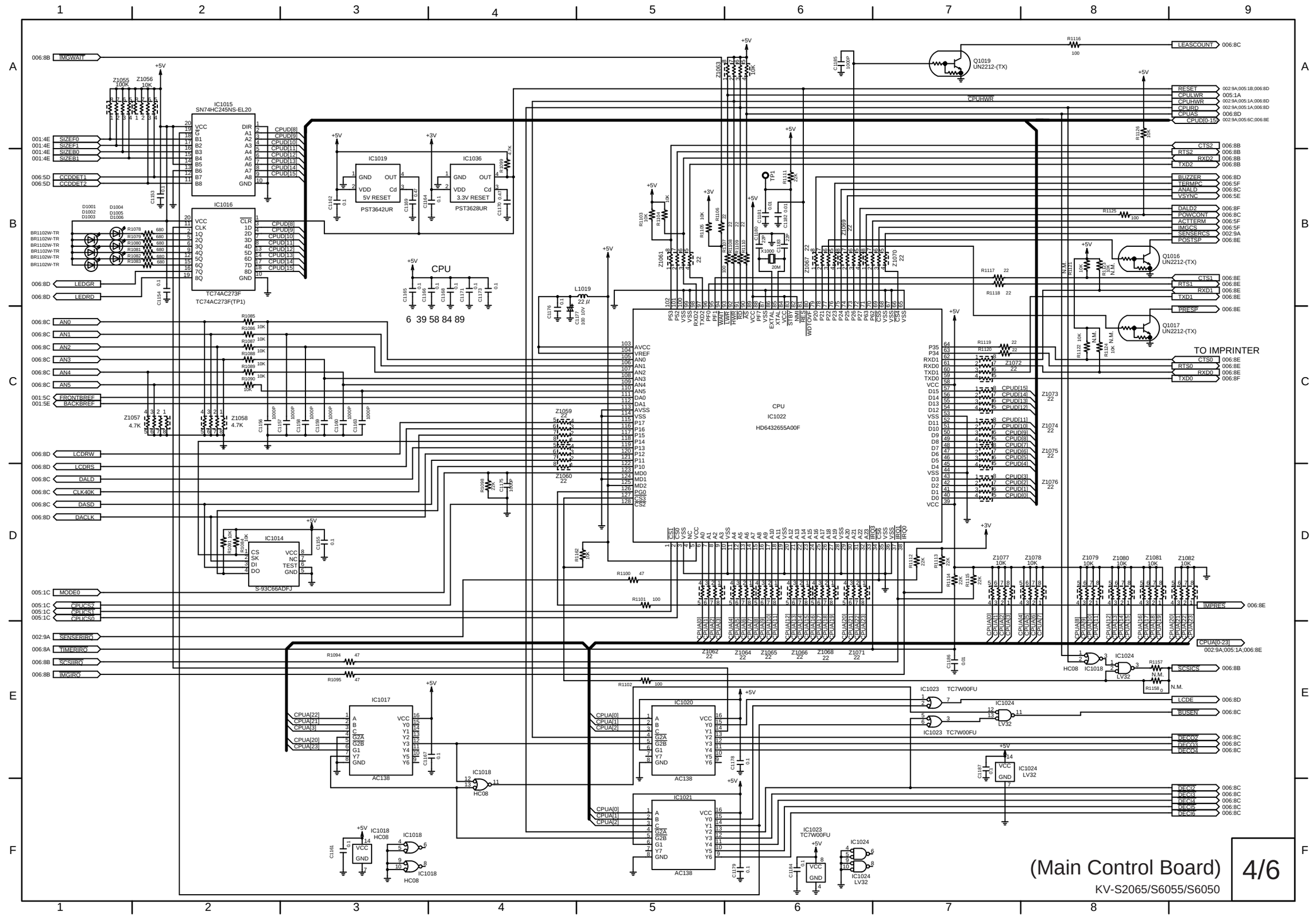

KPC 7094V-0
PBAPX02906045A
PBAPA0290ZE
CN532
8
1
C533
C534
Q530
B C E
C532
R527
C572
CN531
7
1
E C
Q529
END[S]

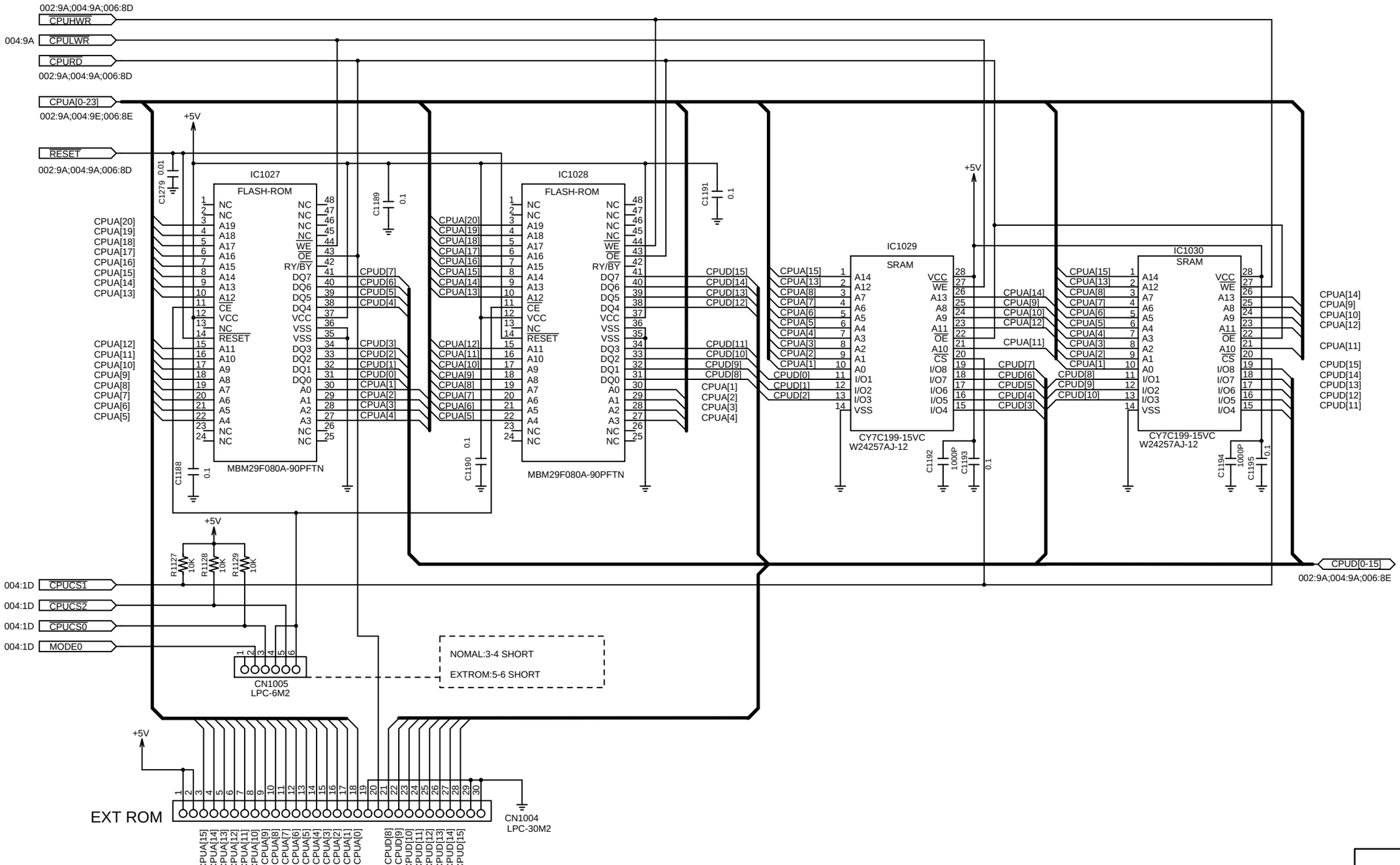

START[L]
5
1
CN518
KPC 7094V-0
D501
A
K
PBAPX02876045A


(Main Control Board)
KV-S2065/S6055/S6050
1/6


IC1006
SLA566THF0T
GA_SENSER
IC1007
26.97MHz
SG-8002JA2697MSCC
Q1015
UN2212-(TX)
Q1020
UN2212-(TX)
(Main Control Board)
KV-S2065/S6055/S6050
2/6

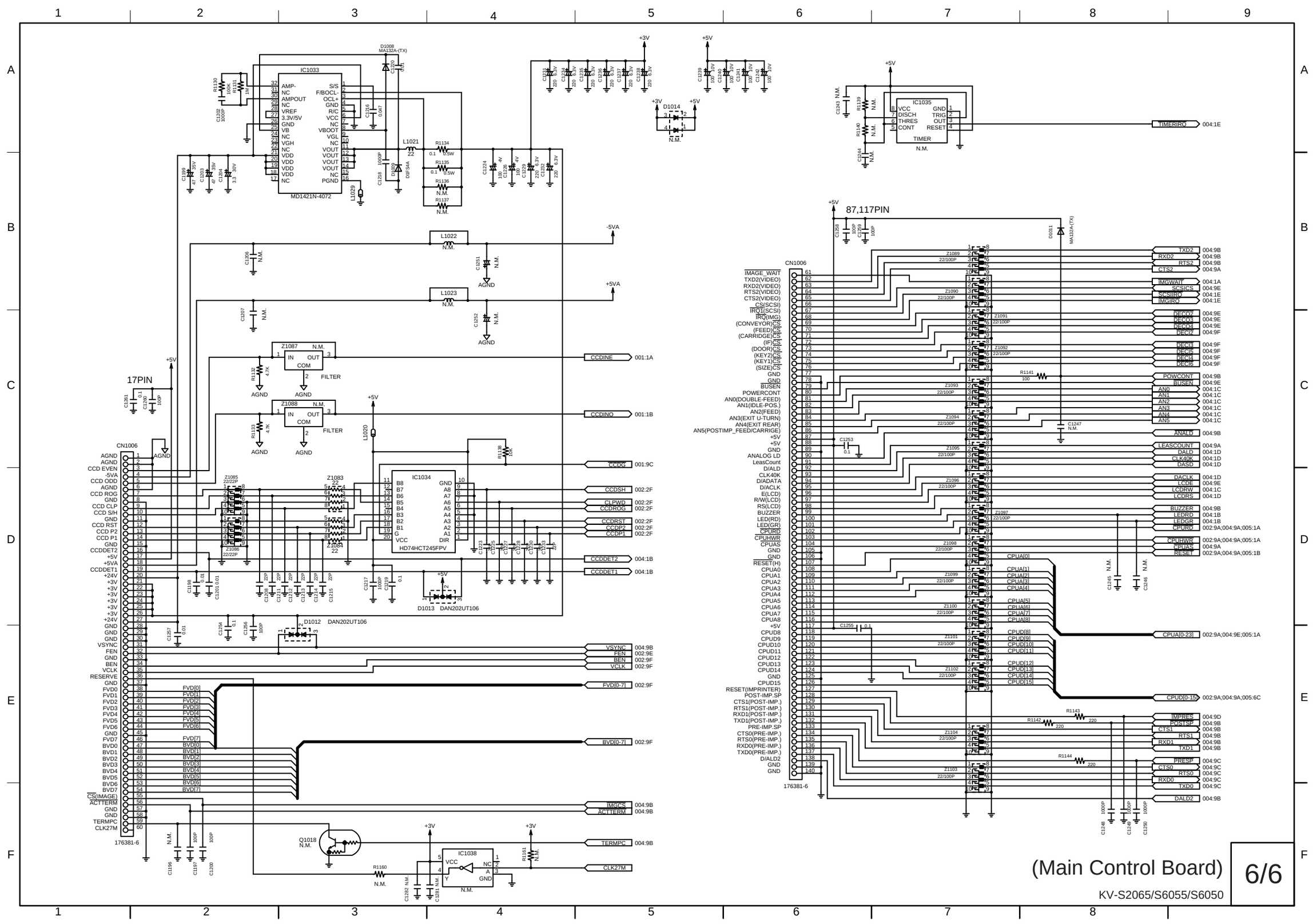

002:1A SHDFOE
002:1A SHDFWR
002:1A SHDFA[0-13]
002:9D LBFWR
002:9C LBFOE
002:9C LBFA[1-15]
002:5F SRAMCS
002:1B SHDBOE
002:1B SHDBWR
002:1B SHDBA[0-13]
002:9C LBBWR
002:9C LBBOE
002:9A LBBA[1-15]
+3V
+5V
IC1008
IC1009
IC1010
IC1011
IC1012
IC1013
CY7C199-15VC
W24257AJ-12
SHDFD[0-7] 002:1A
SHDBD[0-7] 002:1A
LBFD[0-15] 002:9D
LBBD[0-15] 002:9B
(Main Control Board)
KV-S2065/S6055/S6050
3/6

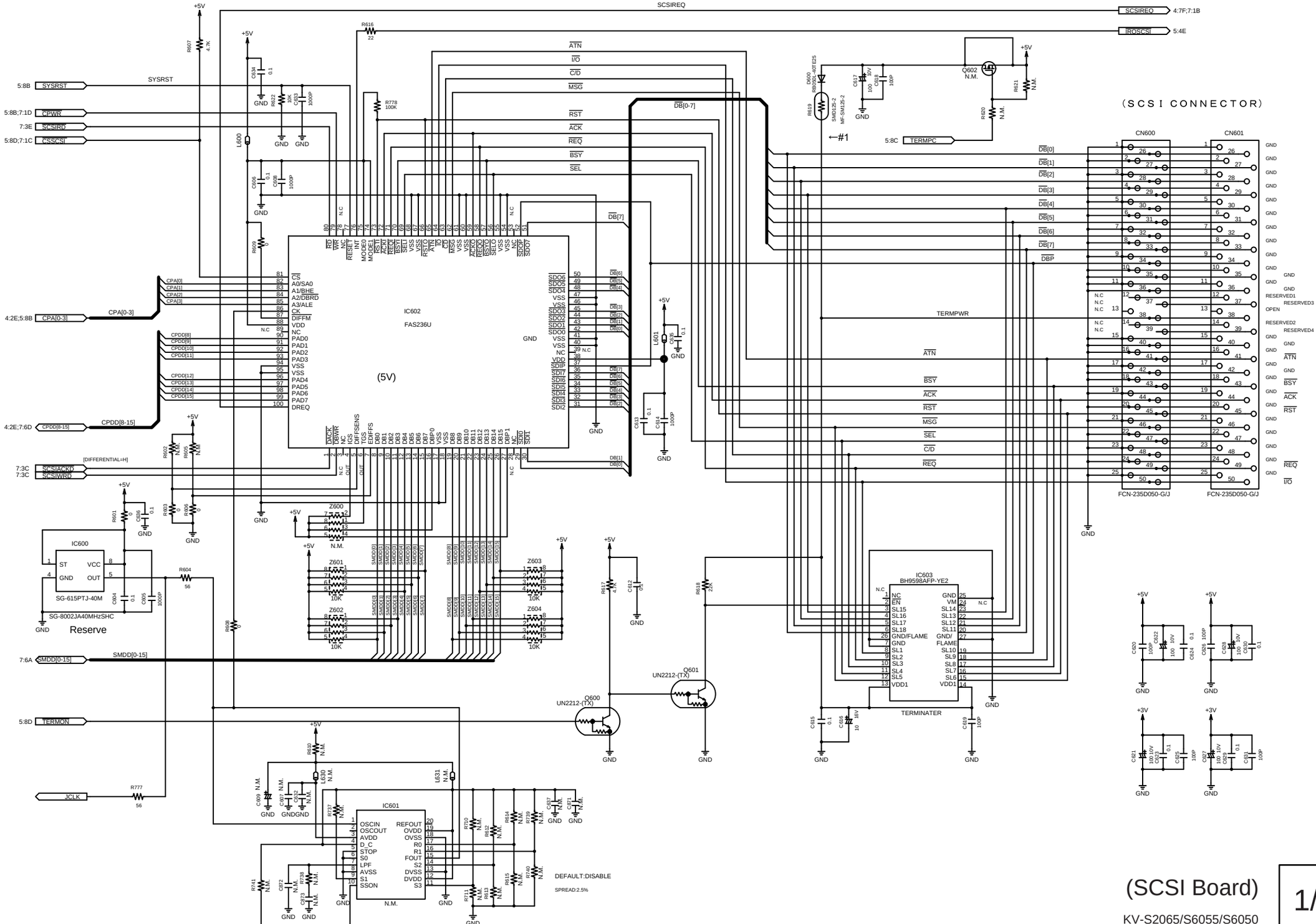

IMGWAIT
SIZEF0
SIZEF1
SIZEB0
SIZEB1
CCDDET1
CCDDET2
LEDGR
LEDRD
AN0
AN1
AN2
AN3
AN4
AN5
FRONTBREF
BACKBREF
LCDRW
LCDRS
DALD
CLK40K
DASD
DACLK
MODE0
CPUCS2
CPUCS1
CPUCS0
SENSERIRQ
TIMERIRQ
SCSIIRQ
IMGIRQ
IC1015
SN74HC245NS-EL20
IC1016
TC74AC273F
TC74AC273F(TP1)
IC1019
5V RESET
PST3642UR
IC1036
3.3V RESET
PST3628UR
CPU
6 39 58 84 89
IC1022
HD6432655A00F
IC1014
S-93C66ADFJ
IC1017
IC1018
IC1020
IC1021
AC138
HC08
IC1023
TC7W00FU
IC1024
LV32
Q1019
UN2212-(TX)
Q1016
UN2212-(TX)
Q1017
UN2212-(TX)
TO IMPRINTER
LEASCOUNT
CPUHWR
RESET
CPULWR
CPUHWR
CPURD
CPUAS
CPUD[0-15]
CTS2
RTS2
RXD2
TXD2
BUZZER
TERMPC
ANALD
VSYNC
DALD2
POWCONT
ACTTERM
IMGCS
SENSERCS
POSTSP
PRESP
CTS1
RTS1
RXD1
TXD1
CTS0
RTS0
RXD0
TXD0
IMPRES
CPUA[0-23]
SCSICS
LCDE
BUSEN
DECO2
DECO3
DECO4
DECI2
DECI3
DECI4
DECI5
DECI6
(Main Control Board)
KV-S2065/S6055/S6050
4/6

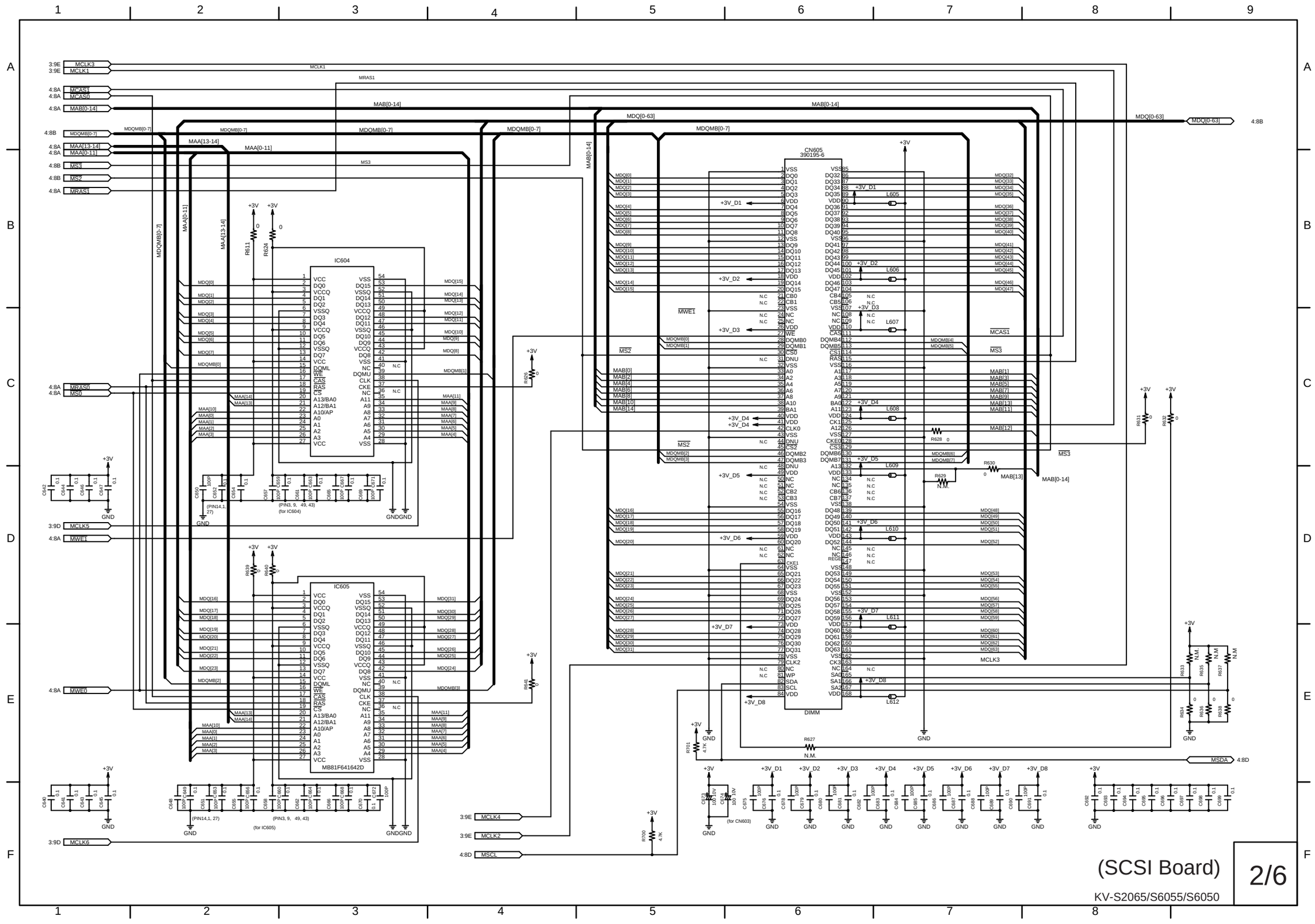


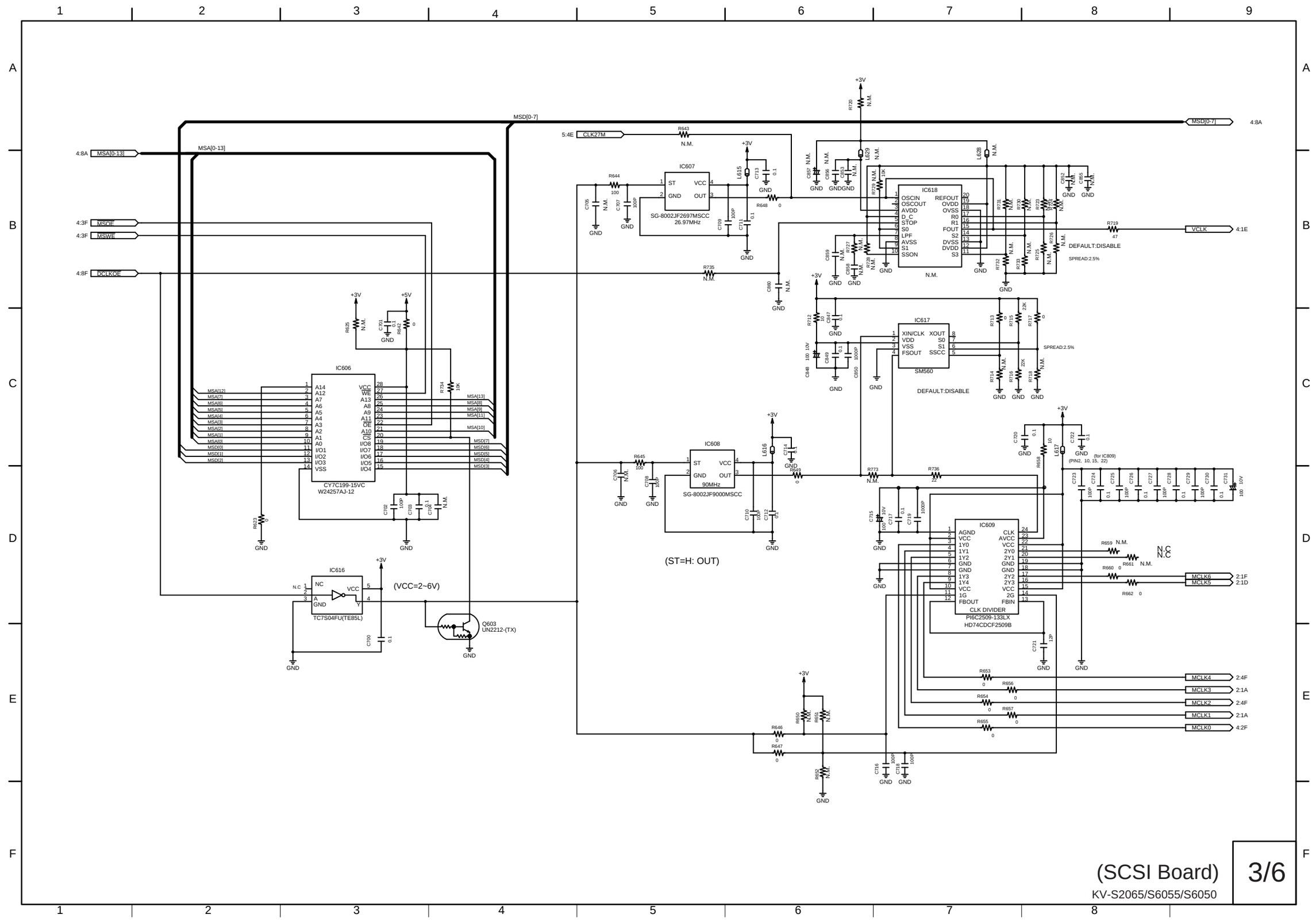
(Main Control Board)

KV-S2065/S6055/S6050


IC1033
MD1421N-4072
IC1035
TIMER
IC1034
HD74HCT245FPV
IC1038
CN1006
176381-6
87,117PIN
17PIN
(Main Control Board)
KV-S2065/S6055/S6050
6/6


SCSIREQ
SCSIREQ 4:7F;7:1B
IROSCSI 5:4E
(SCSI CONNECTOR)
SYSRST
CPWR
SCSIRD
CSSCST
CPA[0-3]
CPDD[8-15]
SCSIACKD
SCSIWRD
TERMON
SMDD[0-15]
JCLK
TERMPC
TERMPWR
IC602
FAS236U
(5V)
IC600
SG-615PTJ-40M
SG-8002JA40MHzSHC
Reserve
IC601
IC603
BH9598AFP-YE2
TERMINATER
Q600
UN2212-(TX)
Q601
UN2212-(TX)
Q602
N.M.
CN600
CN601
FCN-235D050-G/J
DEFAULT:DISABLE
SPREAD:2.5%
(SCSI Board)
KV-S2065/S6055/S6050
1/6

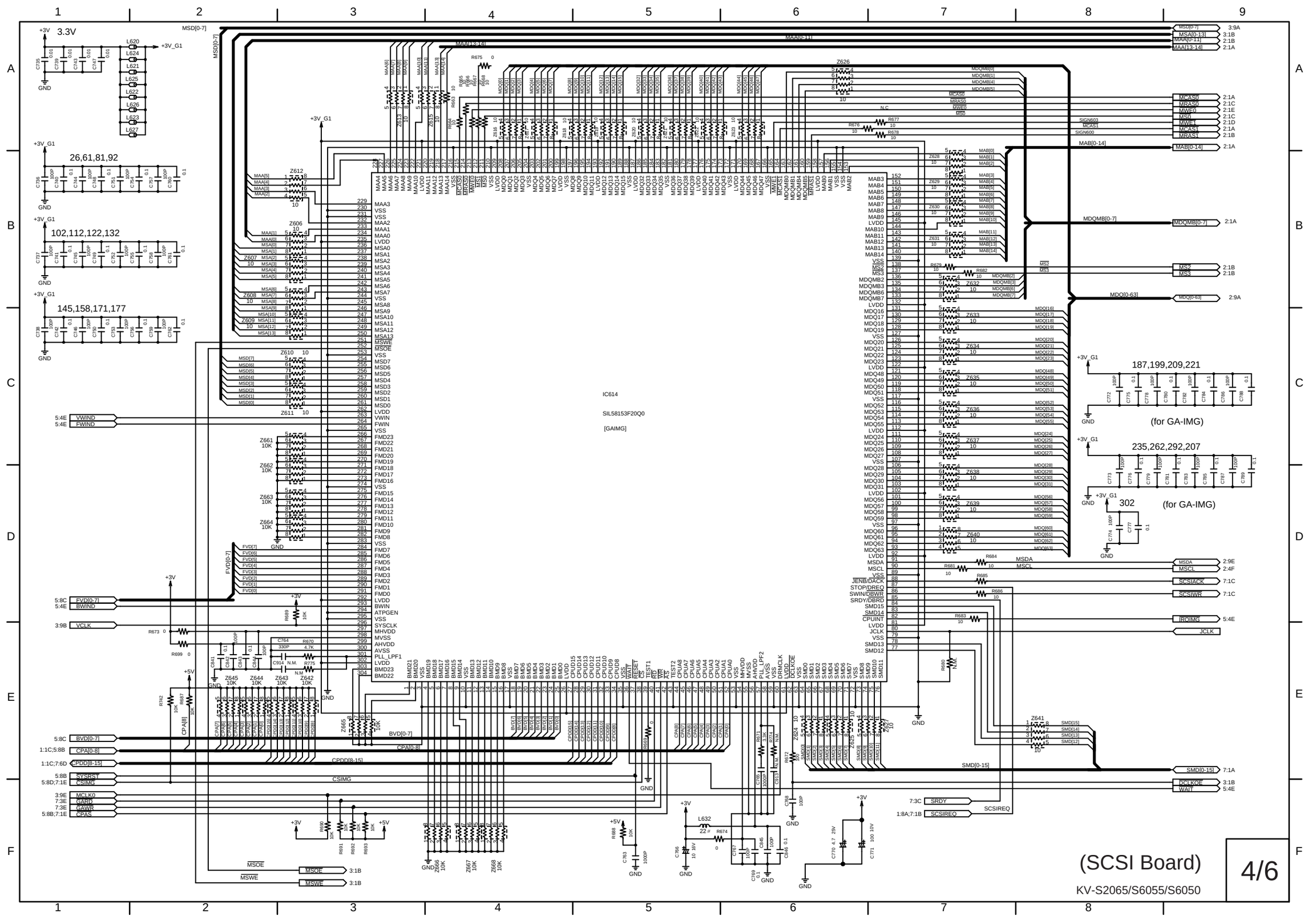

(SCSI Board)
2/6
KV-S2065/S6055/S6050
IC604
IC605
MB81F641642D
CN605
390195-6
DIMM
MCLK3
MCLK1
MRAS1
MCAS1
MCAS0
MAB[0-14]
MDQ[0-63]
MDQMB[0-7]
MAA[13-14]
MAA[0-11]
MS3
MS2
MRAS1
MBAS0
MS0
MWE1
MWE0
MCLK5
MCLK6
MCLK4
MCLK2
MSCL
MSDA
+3V
GND
N.M.

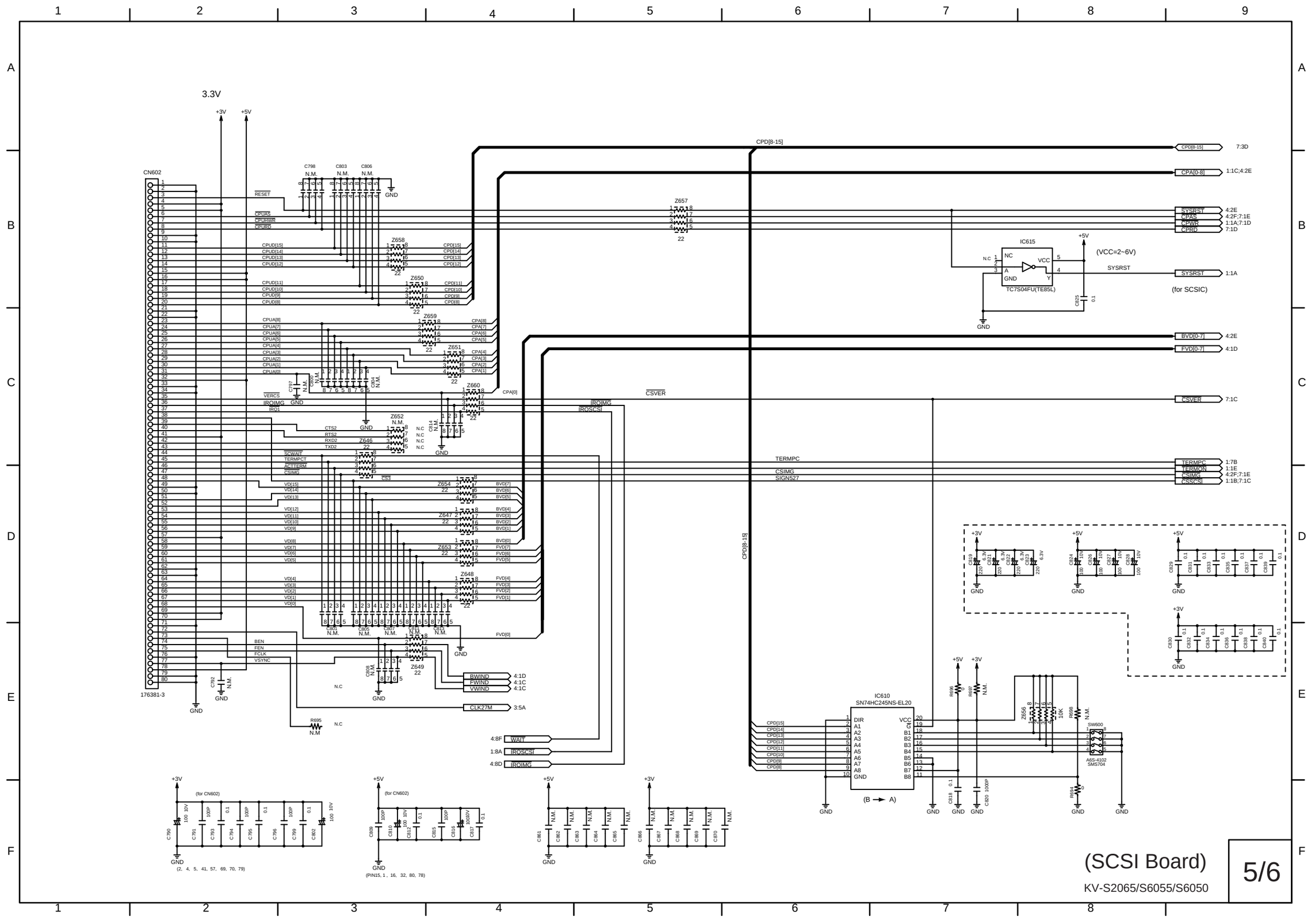


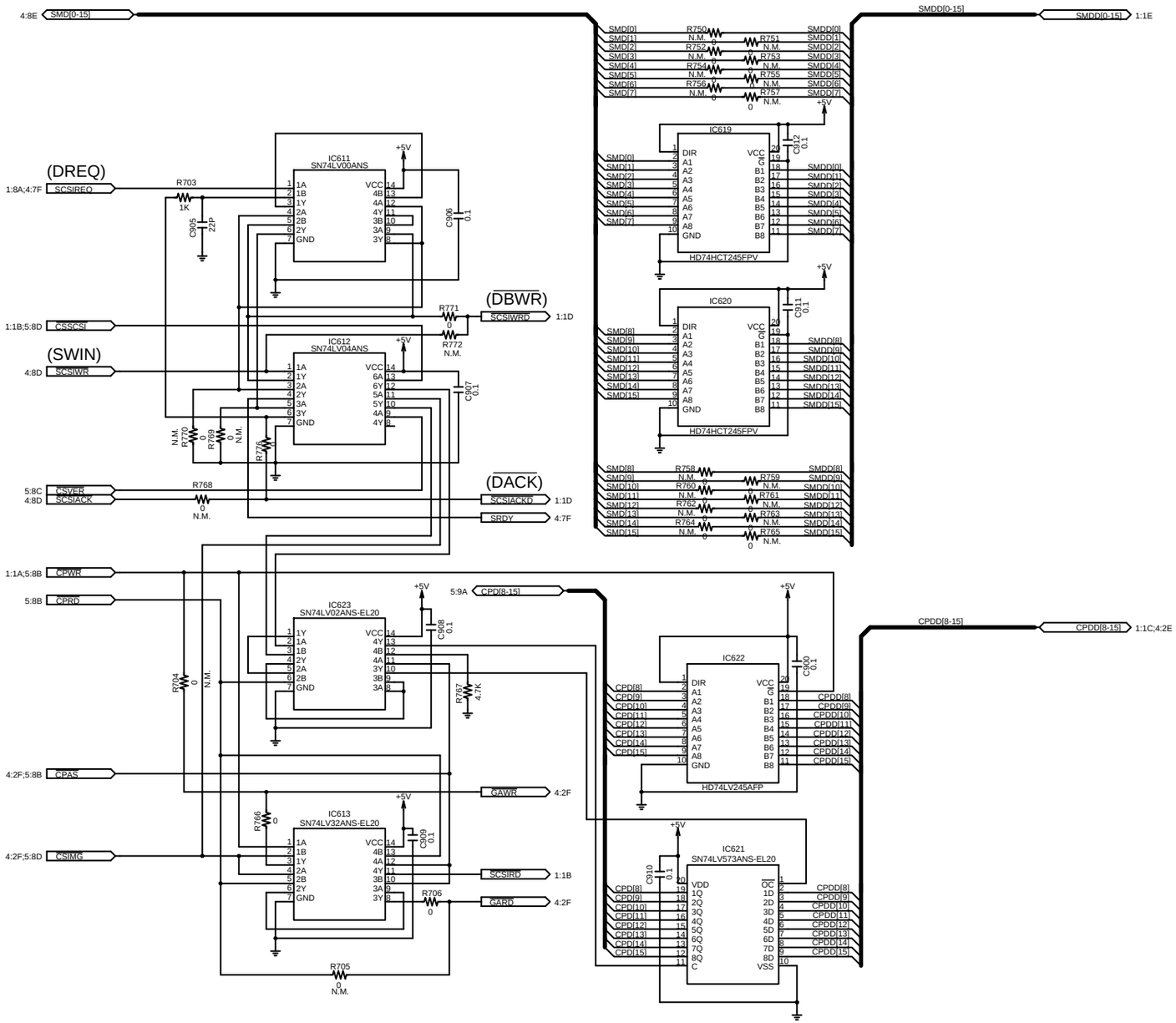
(SCSI Board)

KV-S2065/S6055/S6050

3/6


3.3V
26,61,81,92
102,112,122,132
145,158,171,177
IC614
SIL58153F20Q0
[GAIMG]
187,199,209,221
(for GA-IMG)
235,262,292,207
(for GA-IMG)
302
(SCSI Board)
KV-S2065/S6055/S6050
4/6

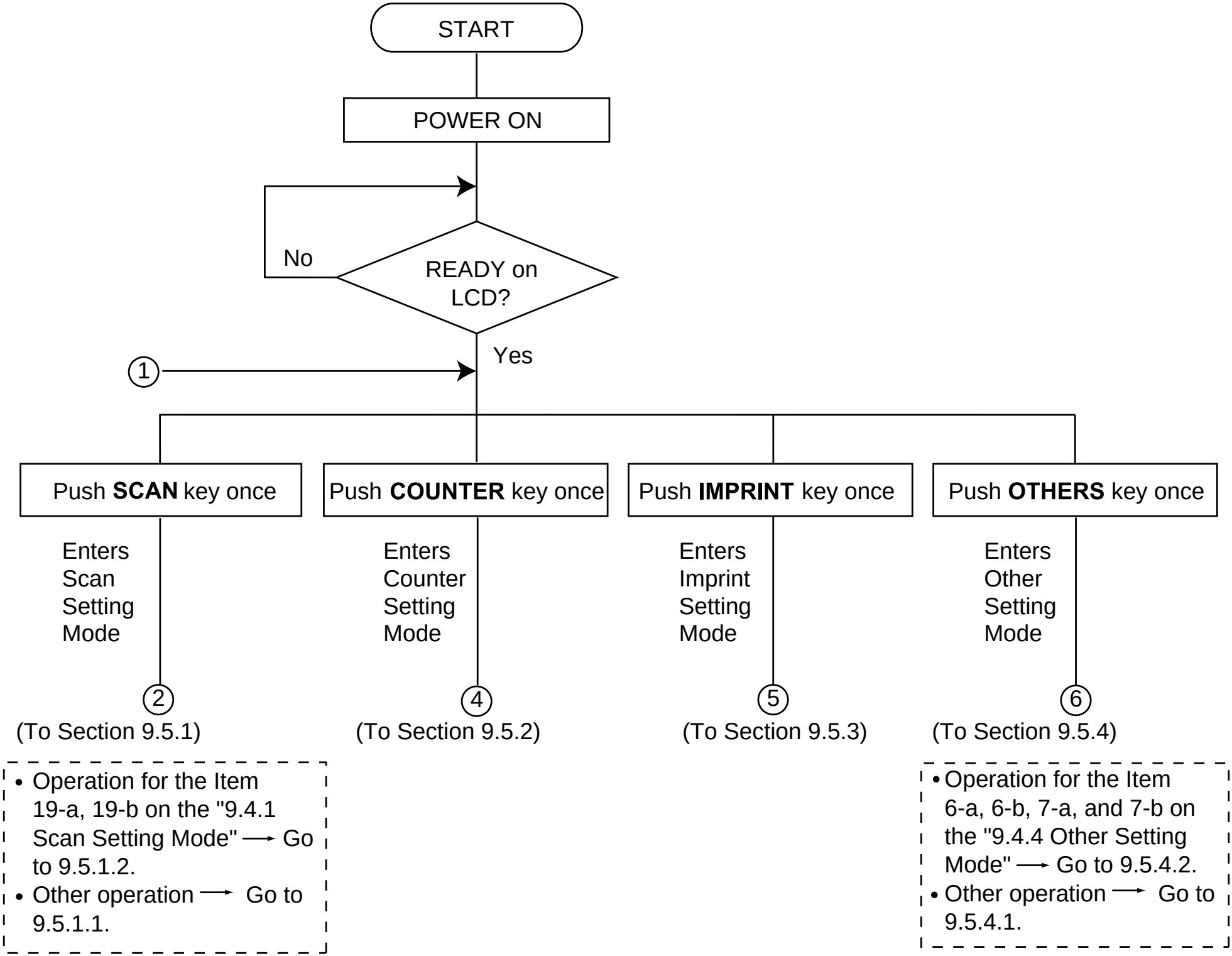

3.3V
CN602
176381-3
RESET
CPUAS
CPUR/W
CPURD
CPUD[15]
CPUD[14]
CPUD[13]
CPUD[12]
CPUD[11]
CPUD[10]
CPUD[9]
CPUD[8]
CPUA[8]
CPUA[7]
CPUA[6]
CPUA[5]
CPUA[4]
CPUA[3]
CPUA[2]
CPUA[1]
CPUA[0]
VERCS
IRQIMG
IRQ1
CTS2
RTS2
RXD2
TXD2
SCWAIT
TERMPCT
ACTTERM
CSIMG
CS3
VD[15]
VD[14]
VD[13]
VD[12]
VD[11]
VD[10]
VD[9]
VD[8]
VD[7]
VD[6]
VD[5]
VD[4]
VD[3]
VD[2]
VD[1]
VD[0]
BEN
FEN
FCLK
VSYNC
BWIND
FWIND
VWIND
CLK27M
WAIT
IROSCSI
IROIMG
CPD[8-15]
CPA[0-8]
SYSRST
CPAS
CPUR/W
CPRD
BVD[0-7]
FVD[0-7]
CSVER
TERMPC
CSIMG
SIGN527
IC615
TC7S04FU(TE85L)
(VCC=2~6V)
(for SCSIC)
IC610
SN74HC245NS-EL20
(B → A)
SW600
A6S-4102
SMS704
(SCSI Board)
KV-S2065/S6055/S6050
5/6

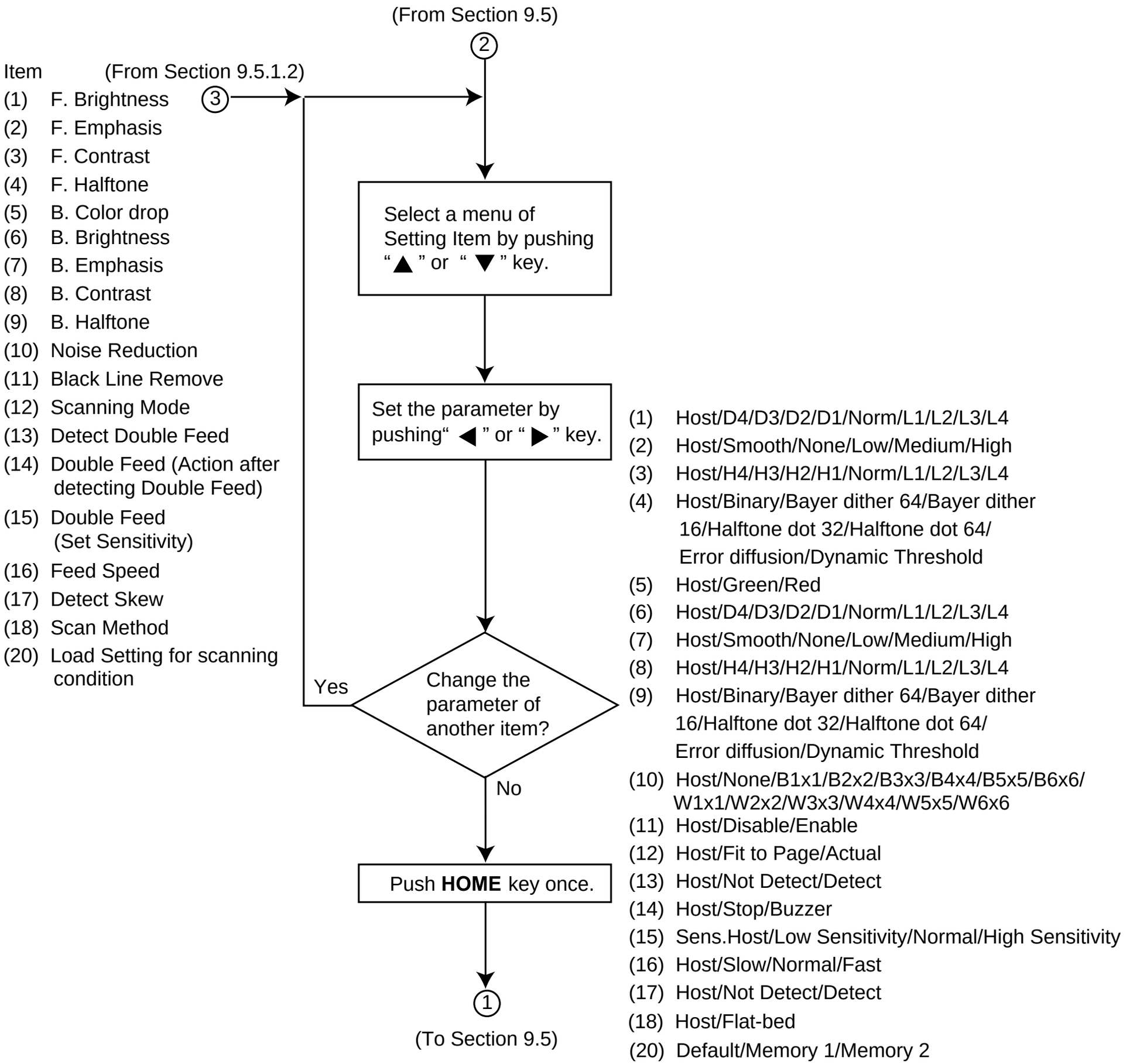


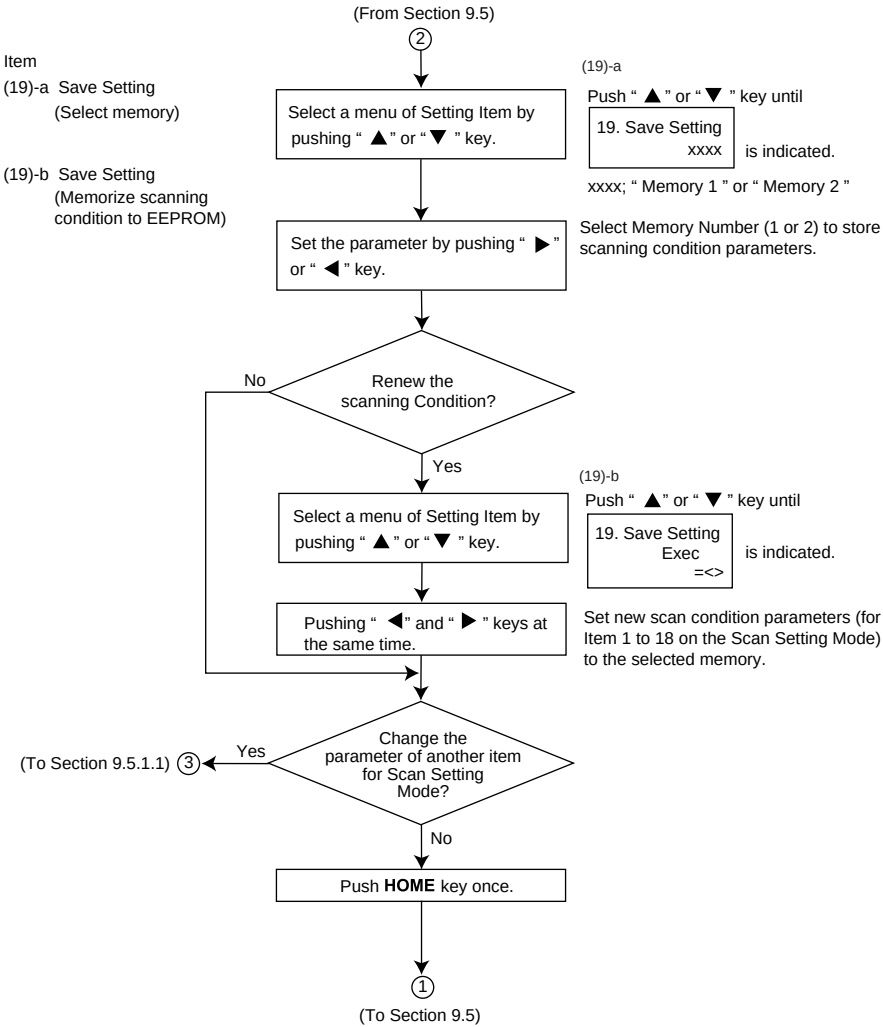
(SCSI Board)

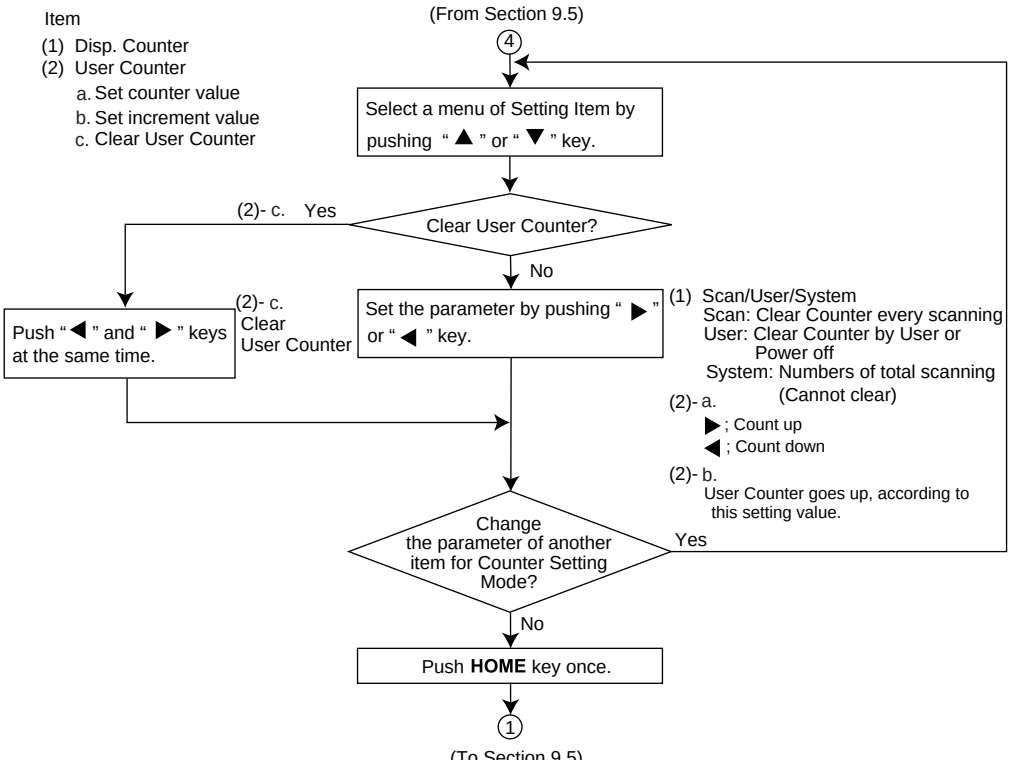
KV-S2065/S6055/S6050

6/6


START
POWER ON
No
READY on LCD?
Yes
1
Push **SCAN** key once
Push **COUNTER** key once
Push **IMPRINT** key once
Push **OTHERS** key once
Enters Scan Setting Mode
Enters Counter Setting Mode
Enters Imprint Setting Mode
Enters Other Setting Mode
2
4
5
6
(To Section 9.5.1)
(To Section 9.5.2)
(To Section 9.5.3)
(To Section 9.5.4)
• Operation for the Item 19-a, 19-b on the "9.4.1 Scan Setting Mode" → Go to 9.5.1.2.
• Other operation → Go to 9.5.1.1.
• Operation for the Item 6-a, 6-b, 7-a, and 7-b on the "9.4.4 Other Setting Mode" → Go to 9.5.4.2.
• Other operation → Go to 9.5.4.1.

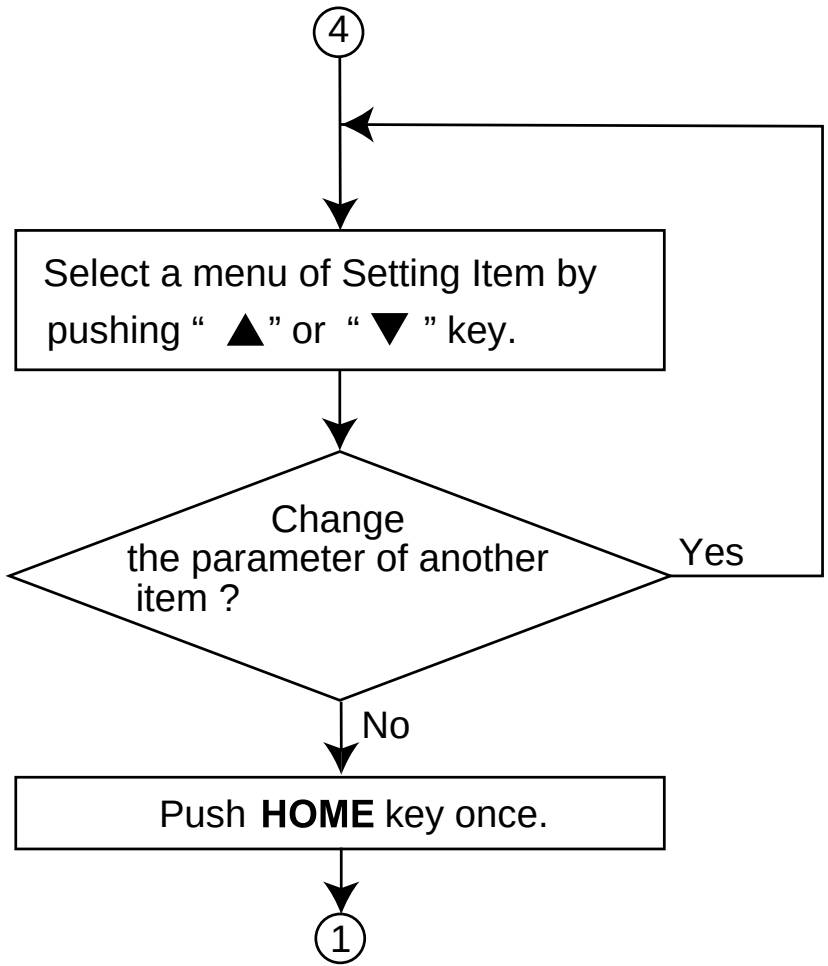

(From Section 9.5)
2
Item
(From Section 9.5.1.2)
3
(1) F. Brightness
(2) F. Emphasis
(3) F. Contrast
(4) F. Halftone
(5) B. Color drop
(6) B. Brightness
(7) B. Emphasis
(8) B. Contrast
(9) B. Halftone
(10) Noise Reduction
(11) Black Line Remove
(12) Scanning Mode
(13) Detect Double Feed
(14) Double Feed (Action after detecting Double Feed)
(15) Double Feed (Set Sensitivity)
(16) Feed Speed
(17) Detect Skew
(18) Scan Method
(20) Load Setting for scanning condition
Select a menu of Setting Item by pushing "▲" or "▼" key.
Set the parameter by pushing "◀" or "▶" key.
Change the parameter of another item?
Yes
No
Push HOME key once.
1
(To Section 9.5)
(1) Host/D4/D3/D2/D1/Norm/L1/L2/L3/L4
(2) Host/Smooth/None/Low/Medium/High
(3) Host/H4/H3/H2/H1/Norm/L1/L2/L3/L4
(4) Host/Binary/Bayer dither 64/Bayer dither 16/Halftone dot 32/Halftone dot 64/ Error diffusion/Dynamic Threshold
(5) Host/Green/Red
(6) Host/D4/D3/D2/D1/Norm/L1/L2/L3/L4
(7) Host/Smooth/None/Low/Medium/High
(8) Host/H4/H3/H2/H1/Norm/L1/L2/L3/L4
(9) Host/Binary/Bayer dither 64/Bayer dither 16/Halftone dot 32/Halftone dot 64/ Error diffusion/Dynamic Threshold
(10) Host/None/B1x1/B2x2/B3x3/B4x4/B5x5/B6x6/ W1x1/W2x2/W3x3/W4x4/W5x5/W6x6
(11) Host/Disable/Enable
(12) Host/Fit to Page/Actual
(13) Host/Not Detect/Detect
(14) Host/Stop/Buzzer
(15) Sens.Host/Low Sensitivity/Normal/High Sensitivity
(16) Host/Slow/Normal/Fast
(17) Host/Not Detect/Detect
(18) Host/Flat-bed
(20) Default/Memory 1/Memory 2


(From Section 9.5)
2
Item
(19)-a Save Setting
(Select memory)
(19)-b Save Setting
(Memorize scanning
condition to EEPROM)
Select a menu of Setting Item by pushing " ▲ " or " ▼ " key.
(19)-a
Push " ▲ " or " ▼ " key until
19. Save Setting
xxxx
is indicated.
xxxx; " Memory 1 " or " Memory 2 "
Set the parameter by pushing " ▶ " or " ◀ " key.
Select Memory Number (1 or 2) to store scanning condition parameters.
Renew the scanning Condition?
No
Yes
(19)-b
Push " ▲ " or " ▼ " key until
19. Save Setting
Exec
=<>
is indicated.
Select a menu of Setting Item by pushing " ▲ " or " ▼ " key.
Pushing " ◀ " and " ▶ " keys at the same time.
Set new scan condition parameters (for Item 1 to 18 on the Scan Setting Mode) to the selected memory.
Change the parameter of another item for Scan Setting Mode?
Yes
(To Section 9.5.1.1) 3
No
Push HOME key once.
1
(To Section 9.5)


Item
(1) Disp. Counter
(2) User Counter
a. Set counter value
b. Set increment value
c. Clear User Counter
(From Section 9.5)
4
Select a menu of Setting Item by pushing " ▲ " or " ▼ " key.
(2)- c. Yes
Clear User Counter?
No
Push " ◀ " and " ▶ " keys at the same time.
(2)- c. Clear User Counter
Set the parameter by pushing " ▶ " or " ◀ " key.
(1) Scan/User/System
Scan: Clear Counter every scanning
User: Clear Counter by User or Power off
System: Numbers of total scanning (Cannot clear)
(2)- a.
▶ ; Count up
◀ ; Count down
(2)- b.
User Counter goes up, according to this setting value.
Change the parameter of another item for Counter Setting Mode?
Yes
No
Push HOME key once.
1
(To Section 9.5)

(3) (Disp.) System Counter

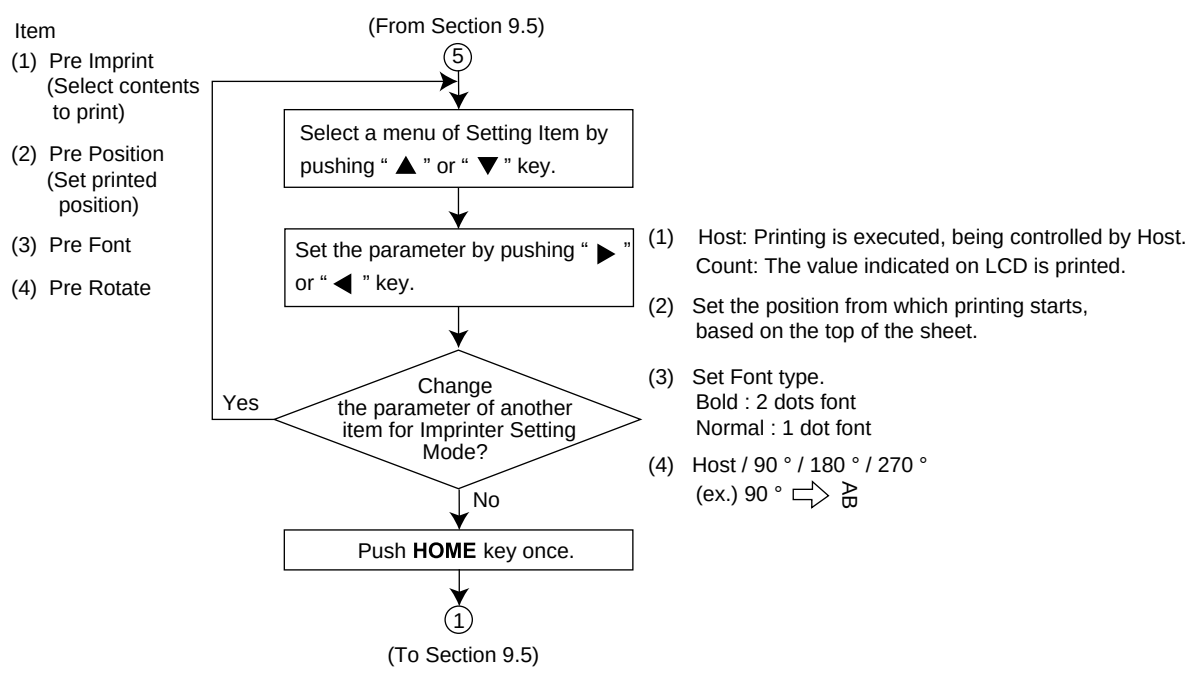
(From Section 9.5)

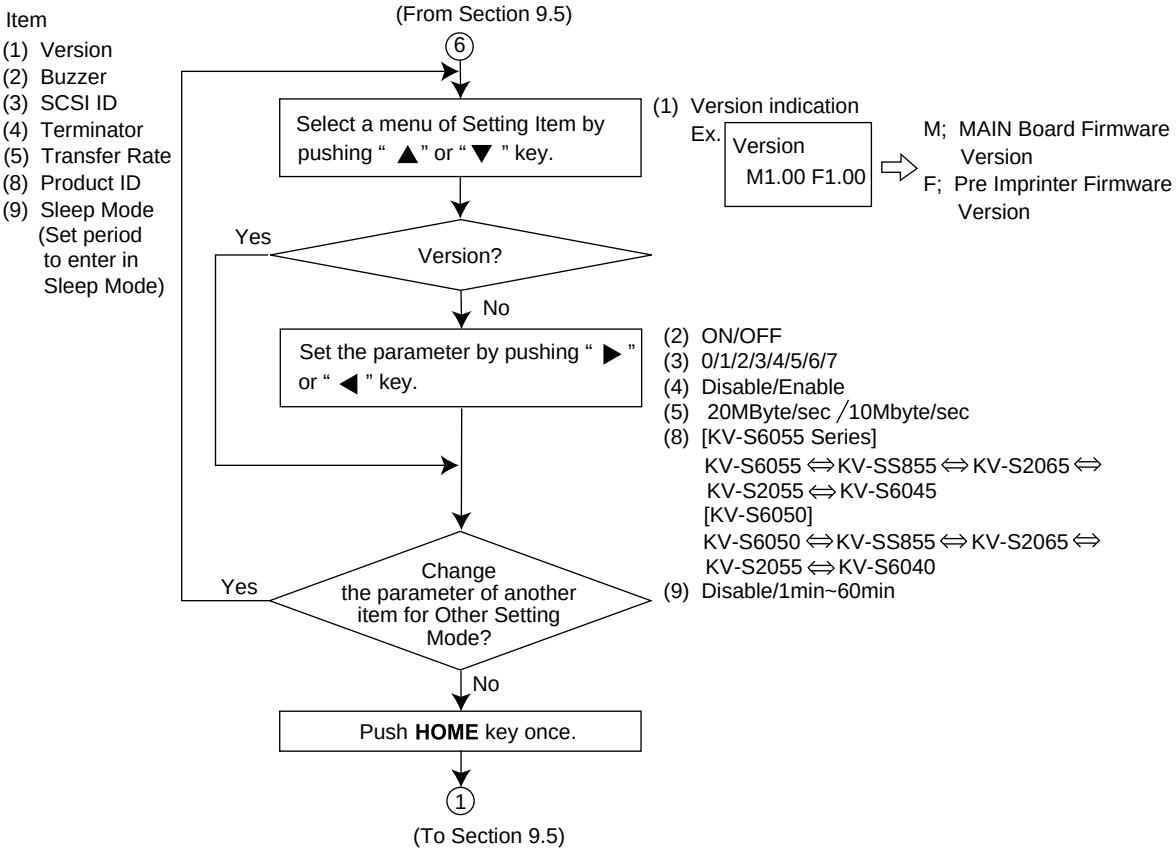


System Count.

Confirm the value for System Counter.

(To Section 9.5)

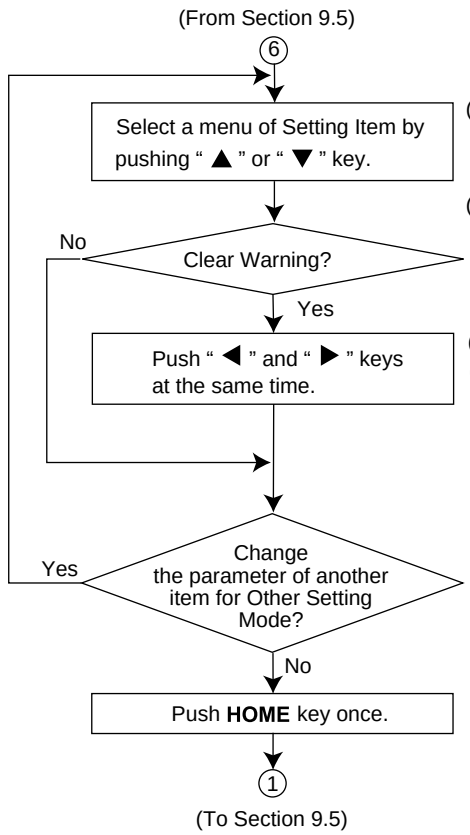

Item
(1) Pre Imprint
(Select contents to print)
(2) Pre Position
(Set printed position)
(3) Pre Font
(4) Pre Rotate
(From Section 9.5)
5
Select a menu of Setting Item by pushing " ▲ " or " ▼ " key.
Set the parameter by pushing " ▶ " or " ◀ " key.
Change the parameter of another item for Imprinter Setting Mode?
Yes
No
Push HOME key once.
1
(To Section 9.5)
(1) Host: Printing is executed, being controlled by Host.
Count: The value indicated on LCD is printed.
(2) Set the position from which printing starts, based on the top of the sheet.
(3) Set Font type.
Bold : 2 dots font
Normal : 1 dot font
(4) Host / 90 ° / 180 ° / 270 °
(ex.) 90 ° ⇨ AB


Item
(1) Version
(2) Buzzer
(3) SCSI ID
(4) Terminator
(5) Transfer Rate
(8) Product ID
(9) Sleep Mode
(Set period to enter in Sleep Mode)
(From Section 9.5)
6
Select a menu of Setting Item by pushing " ▲ " or " ▼ " key.
Yes
Version?
No
Set the parameter by pushing " ▶ " or " ◀ " key.
Yes
Change the parameter of another item for Other Setting Mode?
No
Push HOME key once.
1
(To Section 9.5)
(1) Version indication
Ex. Version M1.00 F1.00
M; MAIN Board Firmware Version
F; Pre Imprinter Firmware Version
(2) ON/OFF
(3) 0/1/2/3/4/5/6/7
(4) Disable/Enable
(5) 20MByte/sec ／10Mbyte/sec
(8) [KV-S6055 Series]
KV-S6055 ⇔ KV-SS855 ⇔ KV-S2065 ⇔ KV-S2055 ⇔ KV-S6045
[KV-S6050]
KV-S6050 ⇔ KV-SS855 ⇔ KV-S2065 ⇔ KV-S2055 ⇔ KV-S6040
(9) Disable/1min~60min

Item

(6) Clean Roller
  a. Disp.%
  b. Clear " Warning for "Clean Roller " "

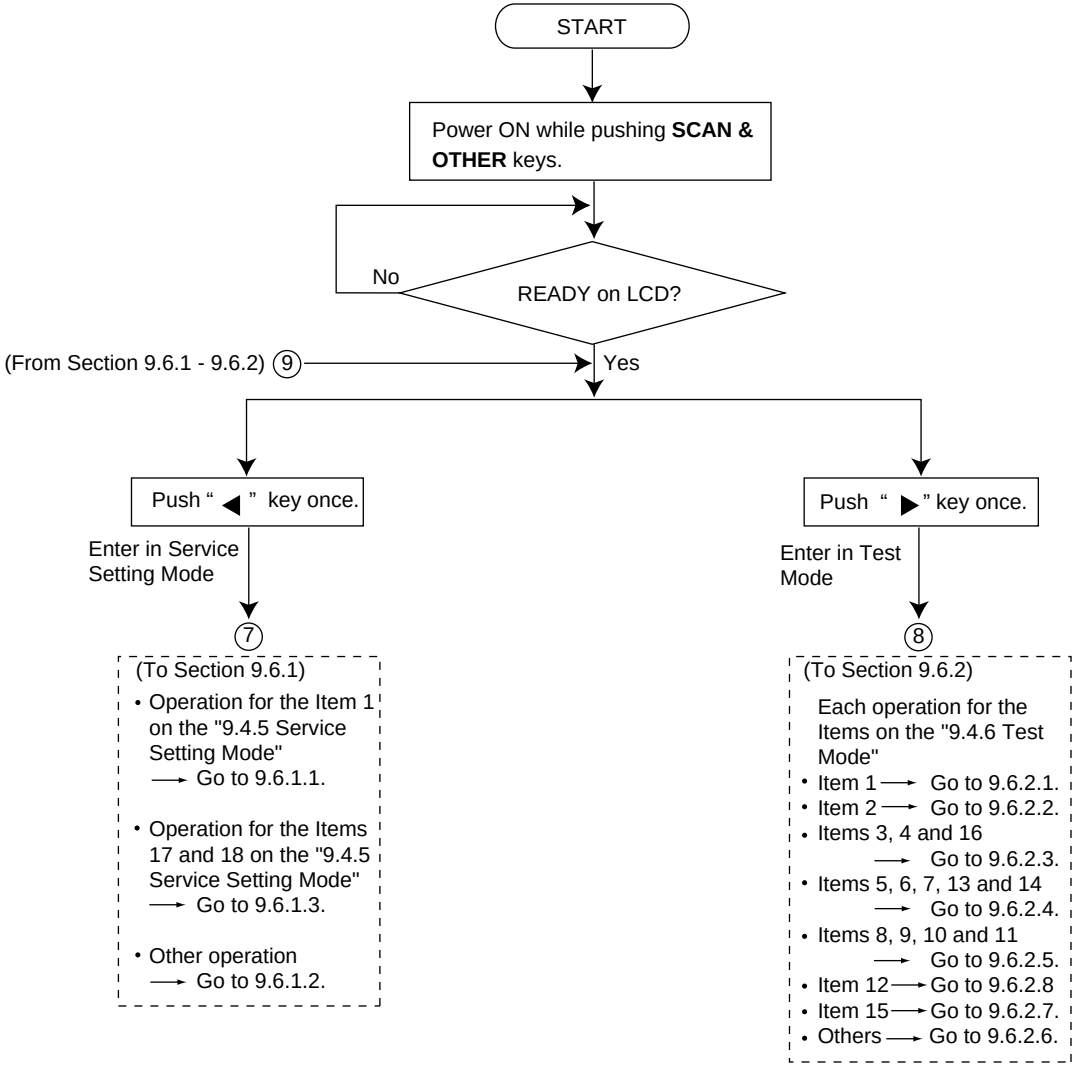
(7) Replace Roller
  a. Disp.%
  b. Clear " Warning for "Replace Roller " "



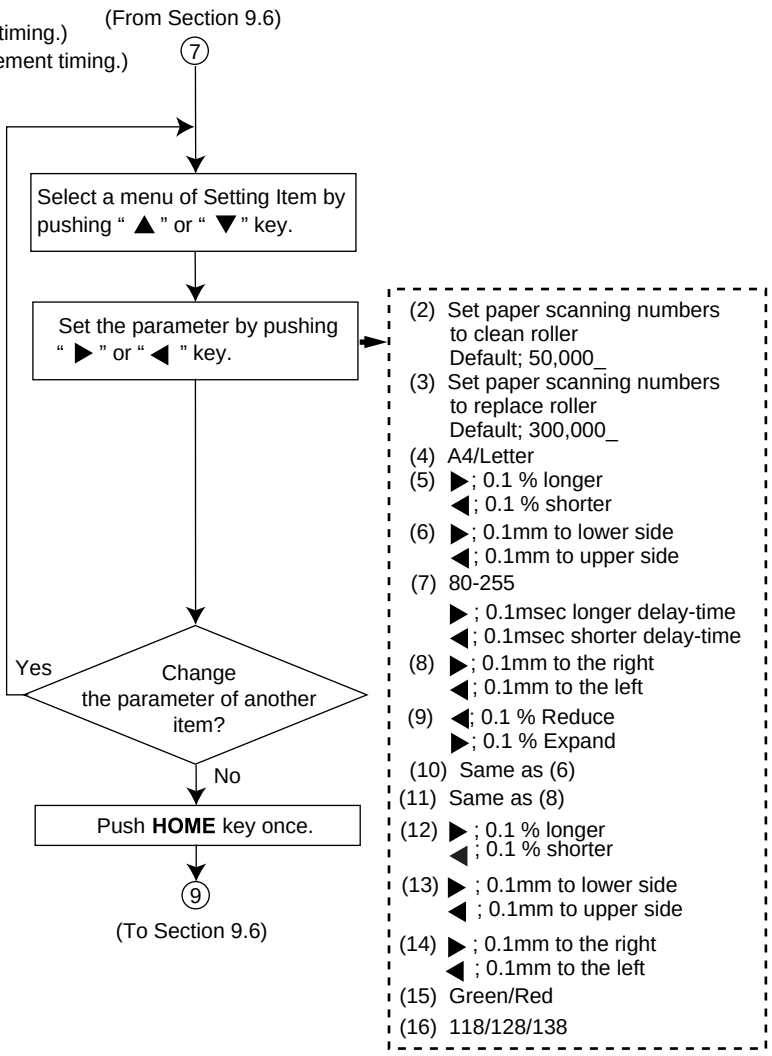
(6)- a.; Indicates % based on the value of " Clean Roller " in Service Setting Mode

(7)- a.; Indicates % based on the value of " Replace Roller " in Service Setting Mode

(6)- b.
(7)- b. Clear Warning


START
Power ON while pushing **SCAN & OTHER** keys.
No
READY on LCD?
(From Section 9.6.1 - 9.6.2) ⑨
Yes
Push " ◀ " key once.
Enter in Service Setting Mode
⑦
(To Section 9.6.1)
• Operation for the Item 1 on the "9.4.5 Service Setting Mode" ⟶ Go to 9.6.1.1.
• Operation for the Items 17 and 18 on the "9.4.5 Service Setting Mode" ⟶ Go to 9.6.1.3.
• Other operation ⟶ Go to 9.6.1.2.
Push " ▶ " key once.
Enter in Test Mode
⑧
(To Section 9.6.2)
Each operation for the Items on the "9.4.6 Test Mode"
• Item 1 ⟶ Go to 9.6.2.1.
• Item 2 ⟶ Go to 9.6.2.2.
• Items 3, 4 and 16 ⟶ Go to 9.6.2.3.
• Items 5, 6, 7, 13 and 14 ⟶ Go to 9.6.2.4.
• Items 8, 9, 10 and 11 ⟶ Go to 9.6.2.5.
• Item 12 ⟶ Go to 9.6.2.8
• Item 15 ⟶ Go to 9.6.2.7.
• Others ⟶ Go to 9.6.2.6.

(2) Clean Roller (Set counter for roller cleaning timing.)
(3) Replace Roller (Set counter for roller replacement timing.)
(4) Detect Size
(5) Adjust value for Paper Length manually
(6) Adjust value for Front V. Position manually
(7) Sensor Delay (Adjust value for Sensor Delay manually)
(8) Adjust value for Front H. Position manually
(9) Adjust value for Front Width manually
(10) Adjust value for Back V. Position manually
(11) Adjust value for Back H. Position manually
(12) Adjust value for FB Length manually
(13) Adjust value for FB V. Position manually
(14) Adjust value for FB H. Position manually
(15) Lamp (Set lamp color.)
(16) Double Feed (Set detection level.)



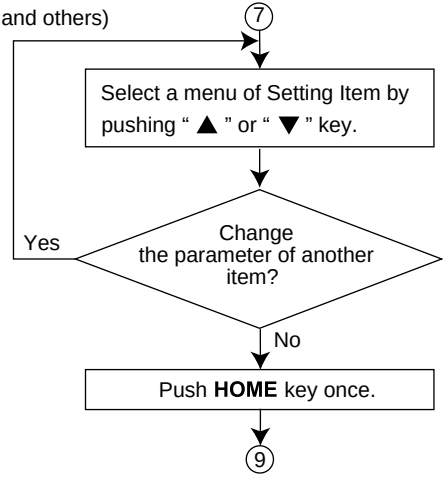
Note:

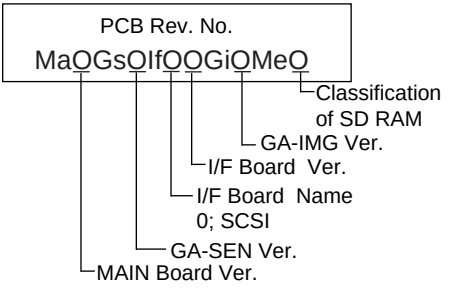
***Execute the Item (5) "Adjust value for Paper Length manually" before Items (6) "Adjust value for Front V. Position manually" and (10) "Adjust value for Back V. Position manually".**

***Execute the Item (12) "Adjust value for FB Length manually" before Item (13) "Adjust value for FB V. Position manually" and (14) "Adjust value for FB H. Position manually".**

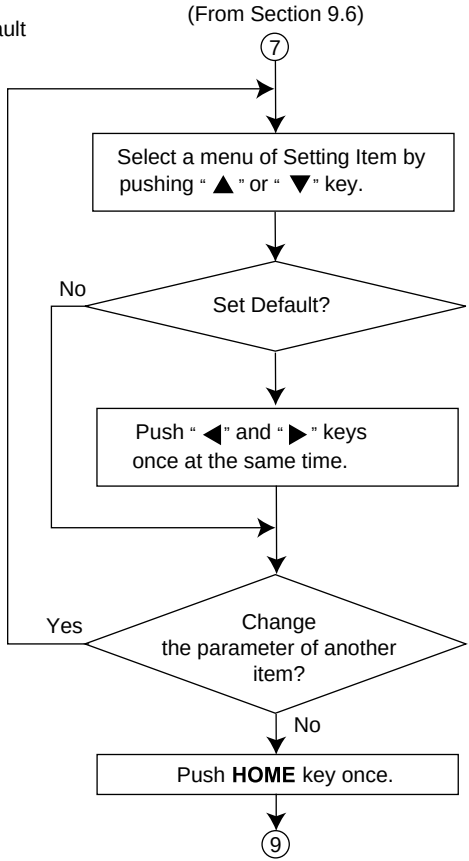
***Execute the Item (9) "Adjust value for Front Width manually" before Item (8) "Adjust value for Front H. Position manually" and (11) "Adjust value for Back H. Position manually".**

(1) PCB Rev. No.
(Disp. PCB Version and others)





(17) Set Default

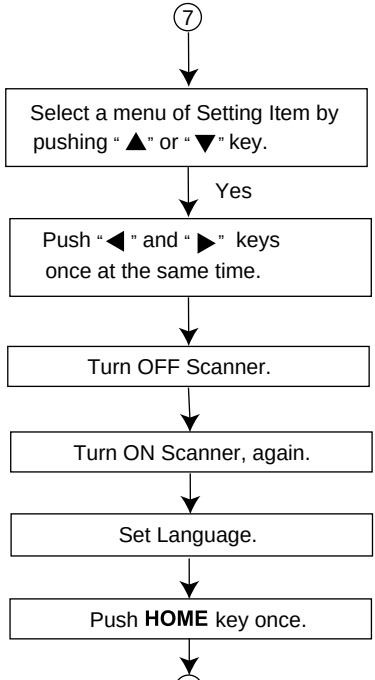


Pushing " ◀ " and " ▶ " keys changes setting on LCD into default except for the following contents.

- SCSI ID 0-7
- Terminator ON/OFF
- System Counter
- Adjust value for scanning position
- Language on LCD
- Lamp (Set lamp color)
- Double Feed (Set detection level)
- Transfer Rate
- Sensor Delay (Adjust value for Sensor Delay manually)

(From Section 9.6)

(18) Reset Language

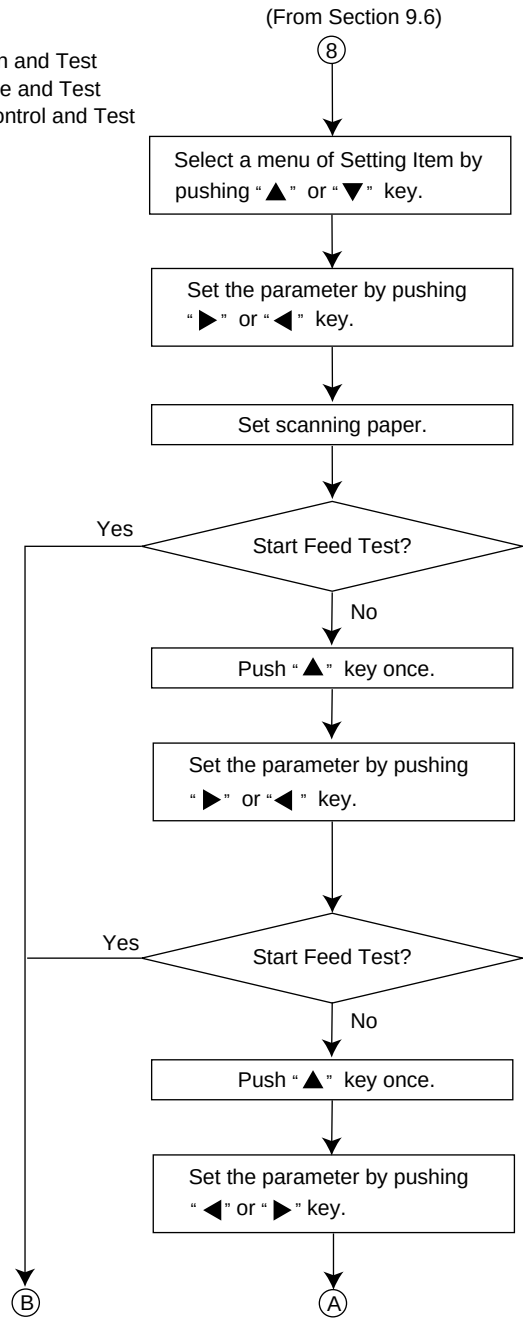


By operating this, Item 4 "Detect Size" (A4 or Letter) is set at the same time.

Note: Refer to "9.1 Front Panel Specifications". (Setting the language)

(To Section 9.6)

(1) Feed Test
a. Set Resolution and Test
b. Set Paper Size and Test
c. Set Length Control and Test



a.

01 Feed Test
Res. xxx START

xxx: 100~600; Default 200
▶; 10 step-up every pushing
◀; 10 step-down every pushing

b.

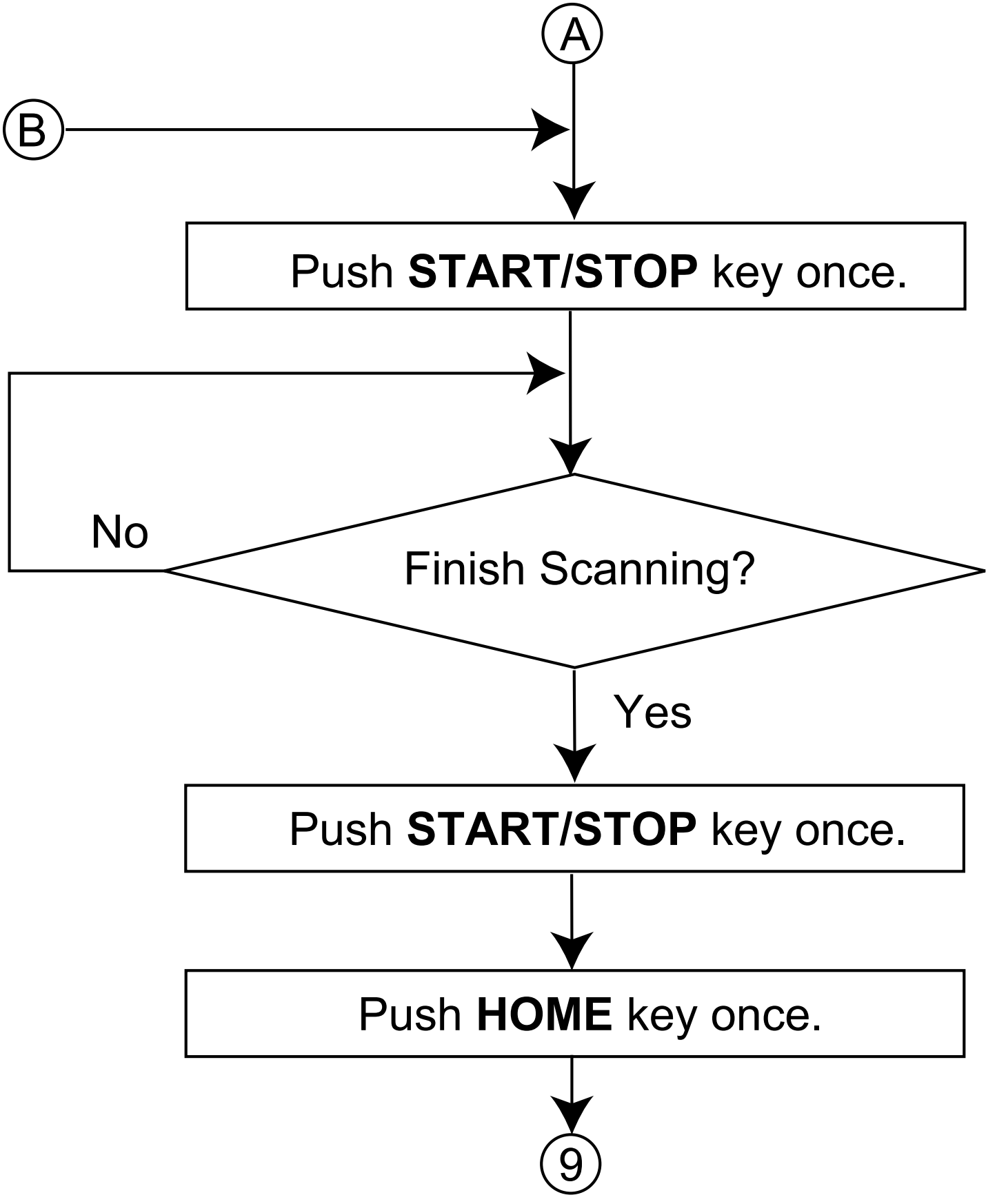
01 Feed Test
Size

A4/A5/A6/B4/B5/B6/MAX/Ltr/
Lgl/Ldr/A3
Ltr : Letter
Lgl : Legal

c.

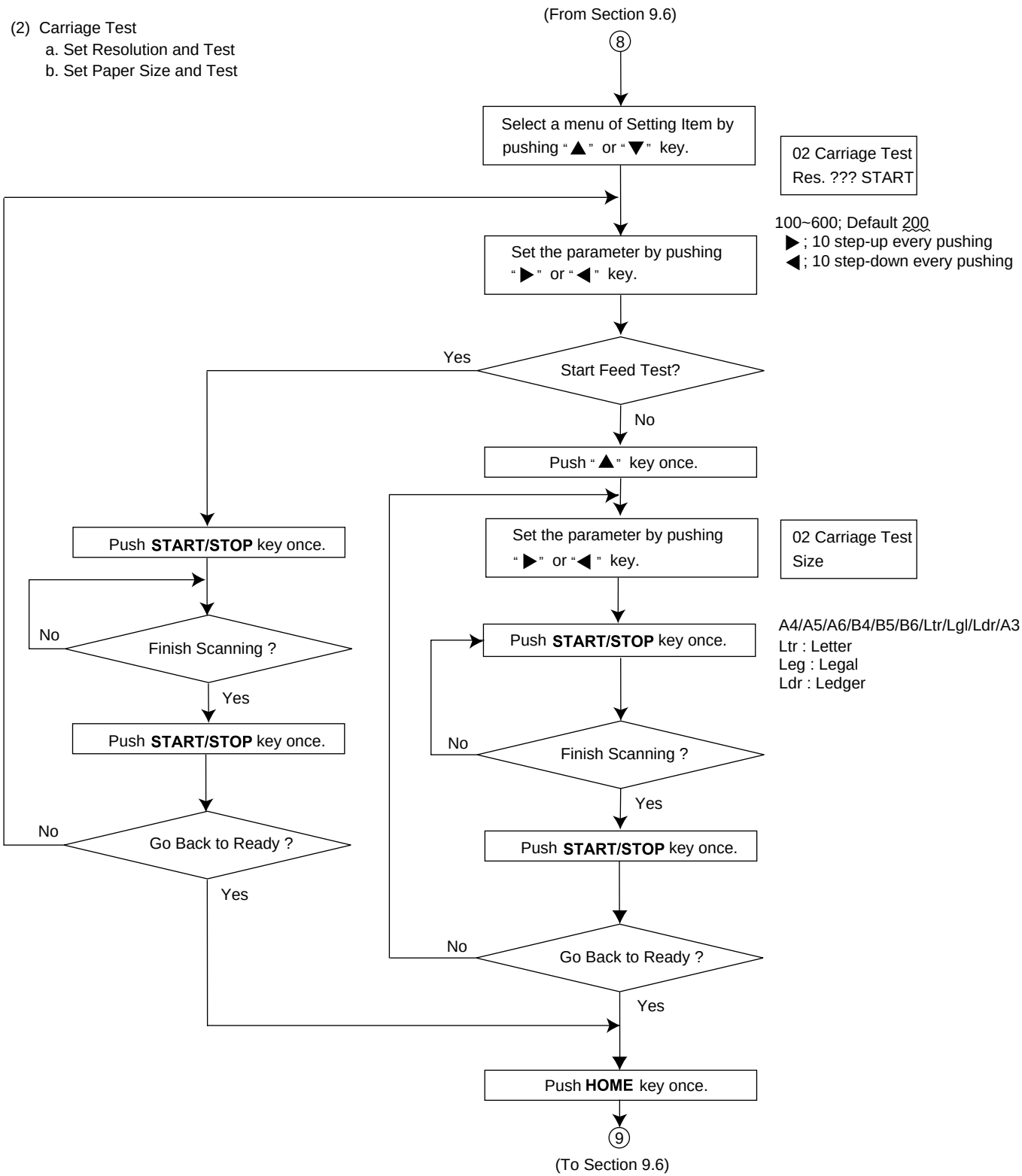
01 Feed Test
LC

Length Control; Default OFF
LC ON / LC OFF
LC ON enables to start scanning the next page, when the original paper size is shorter than that of the paper setting.

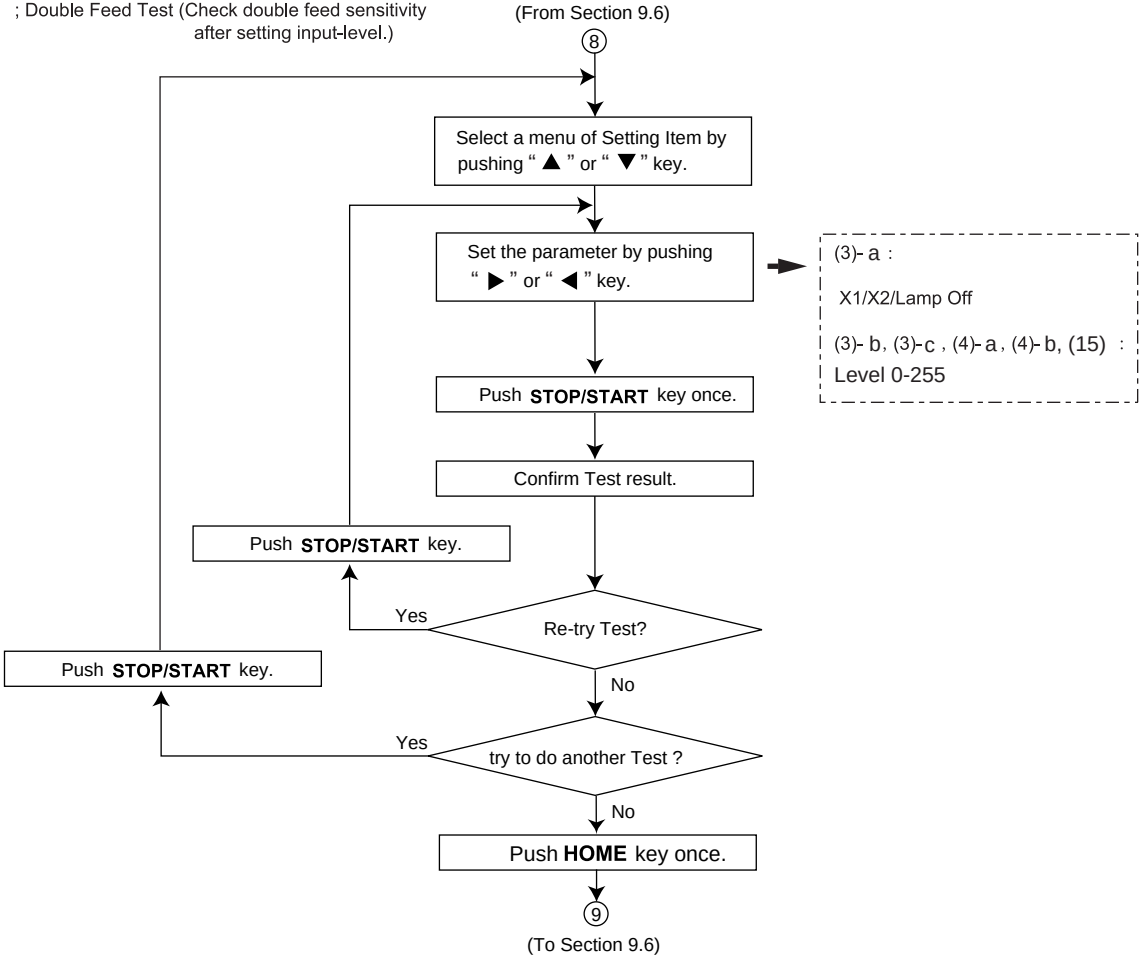


(To Section 9.6)

(2) Carriage Test
a. Set Resolution and Test
b. Set Paper Size and Test



(3)-a ; CCD Test AMP1 (Set gain for Amp1 and test.)
(3)-b ; CCD Test AMP2 (Set gain for Amp2 and test.)
(3)-c ; B.CIS LED (Set LED level and test.)
(4)-a ; F.CCD Black Level (Set black off-set level and test.)
(4)-b ; B.CIS Black Level (Set black off-set level and test.)
(16) ; Double Feed Test (Check double feed sensitivity after setting input-level.)



(5) Document Sensor
(Check each document sensor condition.)
(6) Sensor Sensitive Level
(7) Door & Home Sensor
(13) Memory Test
(14) Sleep Mode

(From Section 9.6)

8

Select a menu of Setting Item by pushing " ▲ " or " ▼ " key.

Select Sensor Test ((5) or (6) or (7) or (12) or (13))

Push **STOP/START** key once.

(5), (6), (7), (12), (13)
Execute each Test

Confirm the Test result.

(5)

P	0	1	2	3	4	5	6	7	8	S	E				
1	0	1	0	1	1	0	1	0	0	0	0				

P: Status of Paper Detector
0,1,2,3,4,5,6,7,8 : Each status of Size Sensors 0-8
* When this status value is "1", it means the paper is in this scanner.
S: Status of Starting Position Sensor
E: Status of Ending Position Sensor

(6)

P	0	1	2	3	4	5	6	7	8	S	E				
x	3	3	3	3	3	3	3	3	3	3	3				

P: Status of Paper Feed Sensor (x: No range)
S: Status of Starting Position Sensor; Range 0-F (F:Darker)
E: Status of Ending (Front) Position Sensor;Range 0-F (F: Darker)
0,1,2,3,4,5,6,7,8 : Each status of Size Sensors 0-8;

(7)

F	A	T	D							H		C		R
0	1	0	0							1		0		0

F: Status of Front Cover
B: Status of ADF Cover
T: Status of Top Cover
D: Document Cover
*When this status value is "1", it means door open.
H: Hopper Position Sensor (Value "1" means Hopper is in home)
C: Carriage Position Sensor (Value "1" means Carriage is in home)
R: Retard Position Sensor (Value "1" means Retard position is released)
(13): No Error or Error Message
(14): No Error or Error Message

Push **STOP/START** key.

Yes

Test again?
or
Do another Test?

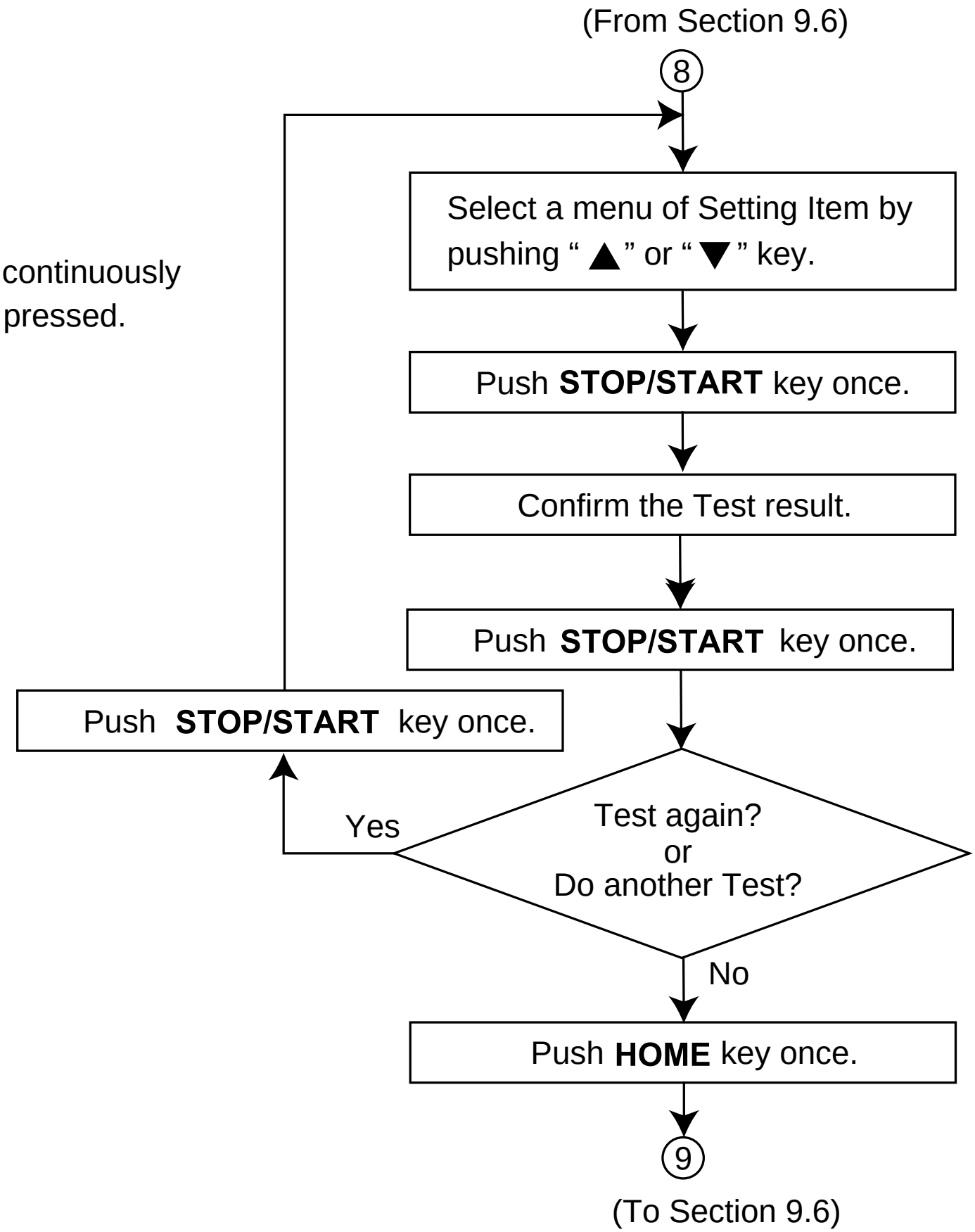
No

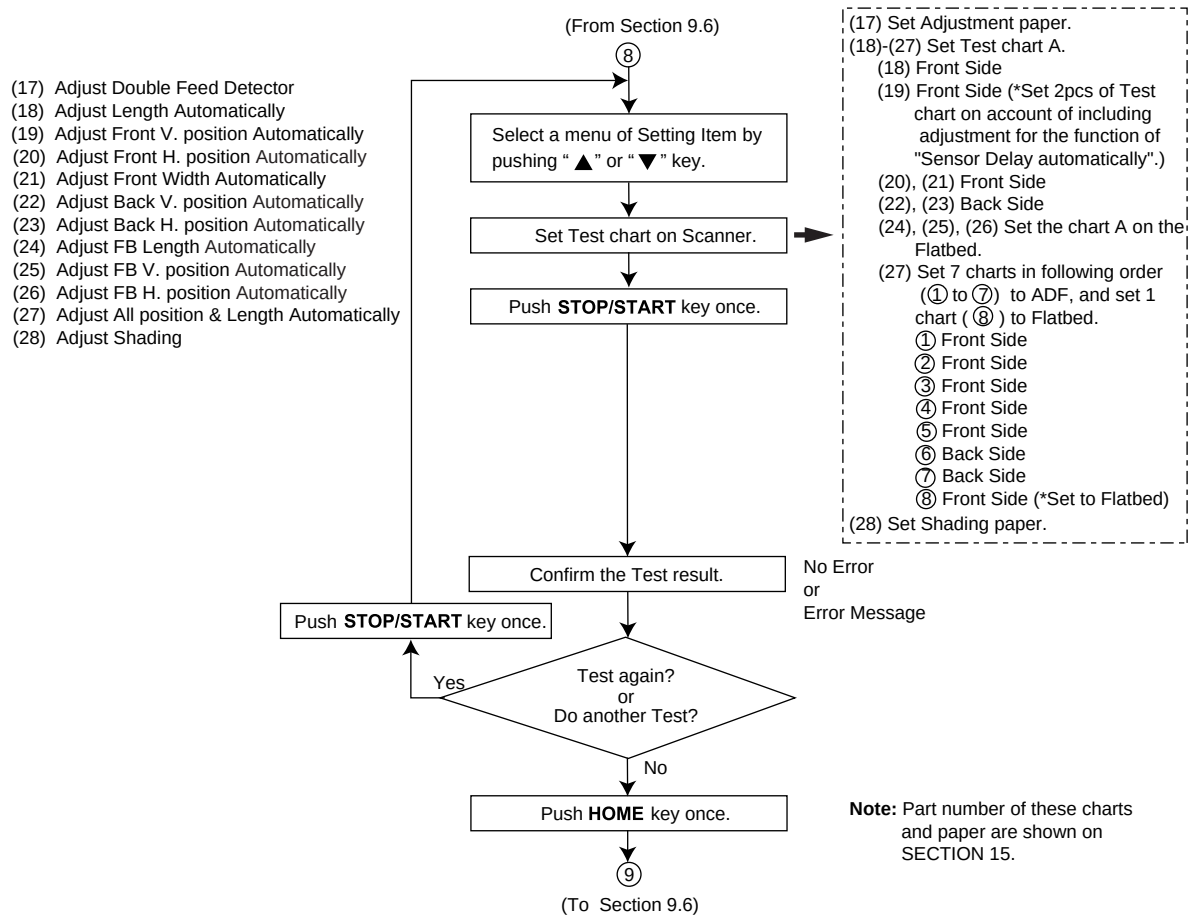
Push **HOME** key once.

9

(To Section 9.6)

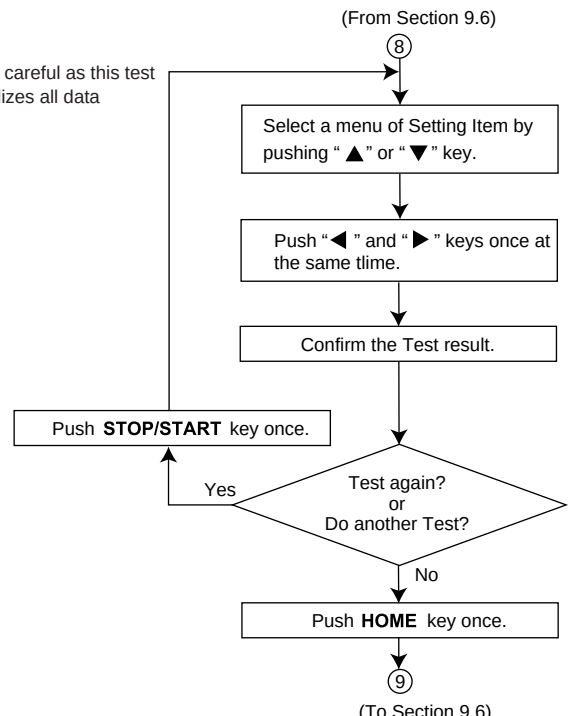
* (8) Hopper Test
* (9) Conveyor Motor
* (10) Feed Motor
* (11) Aging
  * The Test will be repeated continuously until STOP/START key is pressed.



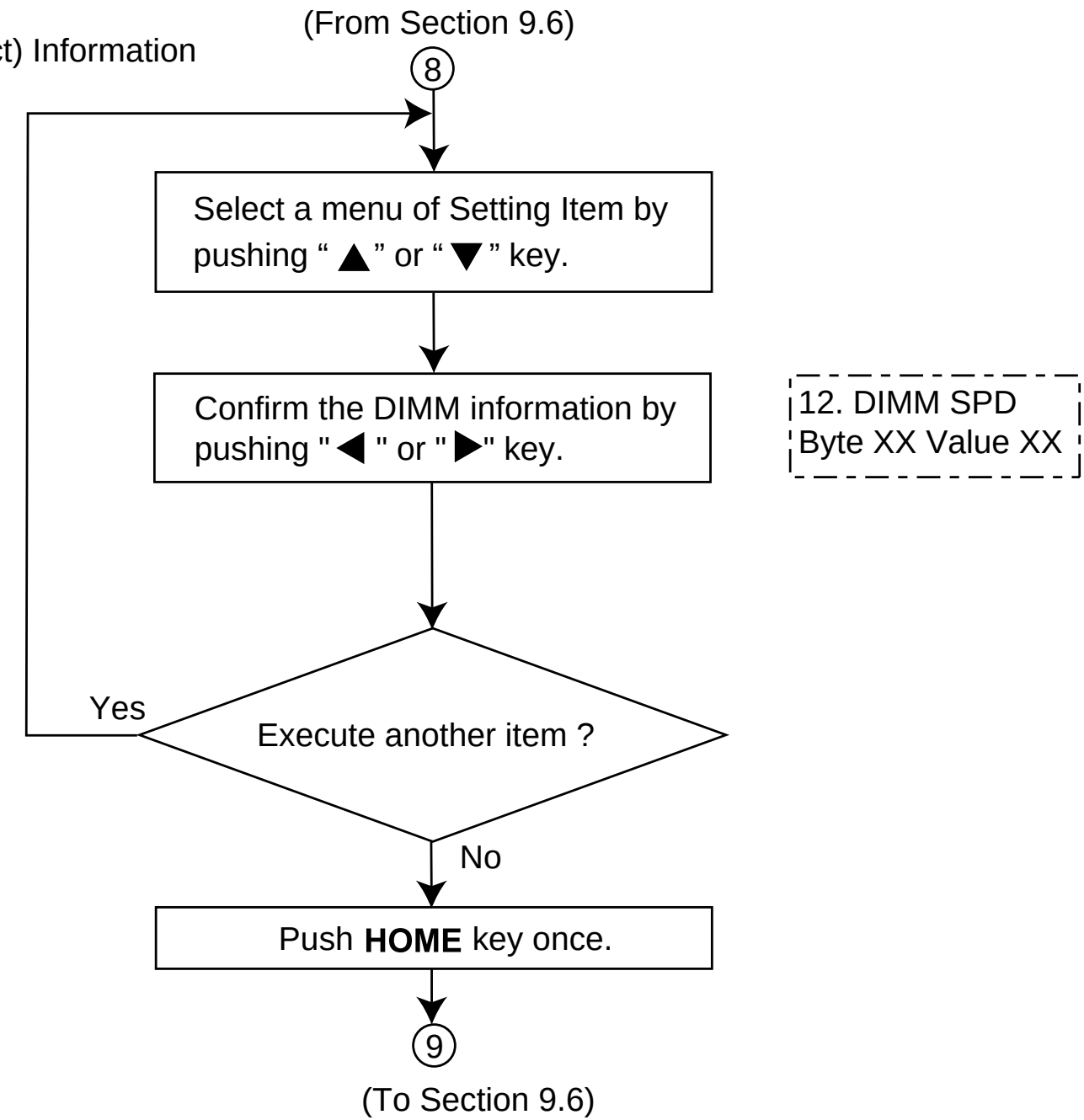

(From Section 9.6)
8
(17) Adjust Double Feed Detector
(18) Adjust Length Automatically
(19) Adjust Front V. position Automatically
(20) Adjust Front H. position Automatically
(21) Adjust Front Width Automatically
(22) Adjust Back V. position Automatically
(23) Adjust Back H. position Automatically
(24) Adjust FB Length Automatically
(25) Adjust FB V. position Automatically
(26) Adjust FB H. position Automatically
(27) Adjust All position & Length Automatically
(28) Adjust Shading
Select a menu of Setting Item by pushing " ▲ " or " ▼ " key.
Set Test chart on Scanner.
Push STOP/START key once.
(17) Set Adjustment paper.
(18)-(27) Set Test chart A.
(18) Front Side
(19) Front Side (*Set 2pcs of Test chart on account of including adjustment for the function of "Sensor Delay automatically".)
(20), (21) Front Side
(22), (23) Back Side
(24), (25), (26) Set the chart A on the Flatbed.
(27) Set 7 charts in following order (① to ⑦) to ADF, and set 1 chart (⑧) to Flatbed.
① Front Side
② Front Side
③ Front Side
④ Front Side
⑤ Front Side
⑥ Back Side
⑦ Back Side
⑧ Front Side (*Set to Flatbed)
(28) Set Shading paper.
Confirm the Test result.
No Error
or
Error Message
Push STOP/START key once.
Yes
Test again?
or
Do another Test?
No
Push HOME key once.
9
(To Section 9.6)
Note: Part number of these charts and paper are shown on SECTION 15.

(15) Init. EEPROM

* Please be very careful as this test operation initializes all data



(12) DIMM SPD (Serial Presence Detect) Information



Error Code Outline

ST1	Error Content
0X	Communication Error
1X	Paper Jam Error
2X	Door Open Error
3X	Mechanical Function Error
4X	Paper (Document) Sensor Error
5X	Scanning Error
6X	-
7X	-
8X	Hardware Error
9X	Hardware Error
AX	-
BX	-
CX	-
DX	-
EX	-
FX	-

Table 9-1

Note: (1) How to confirm Table 9-1
(ex.)
0x-shows Communication Error for 00 to 0B of ST1 bit.
(2) “-” in Error Content is not used.

Error Code

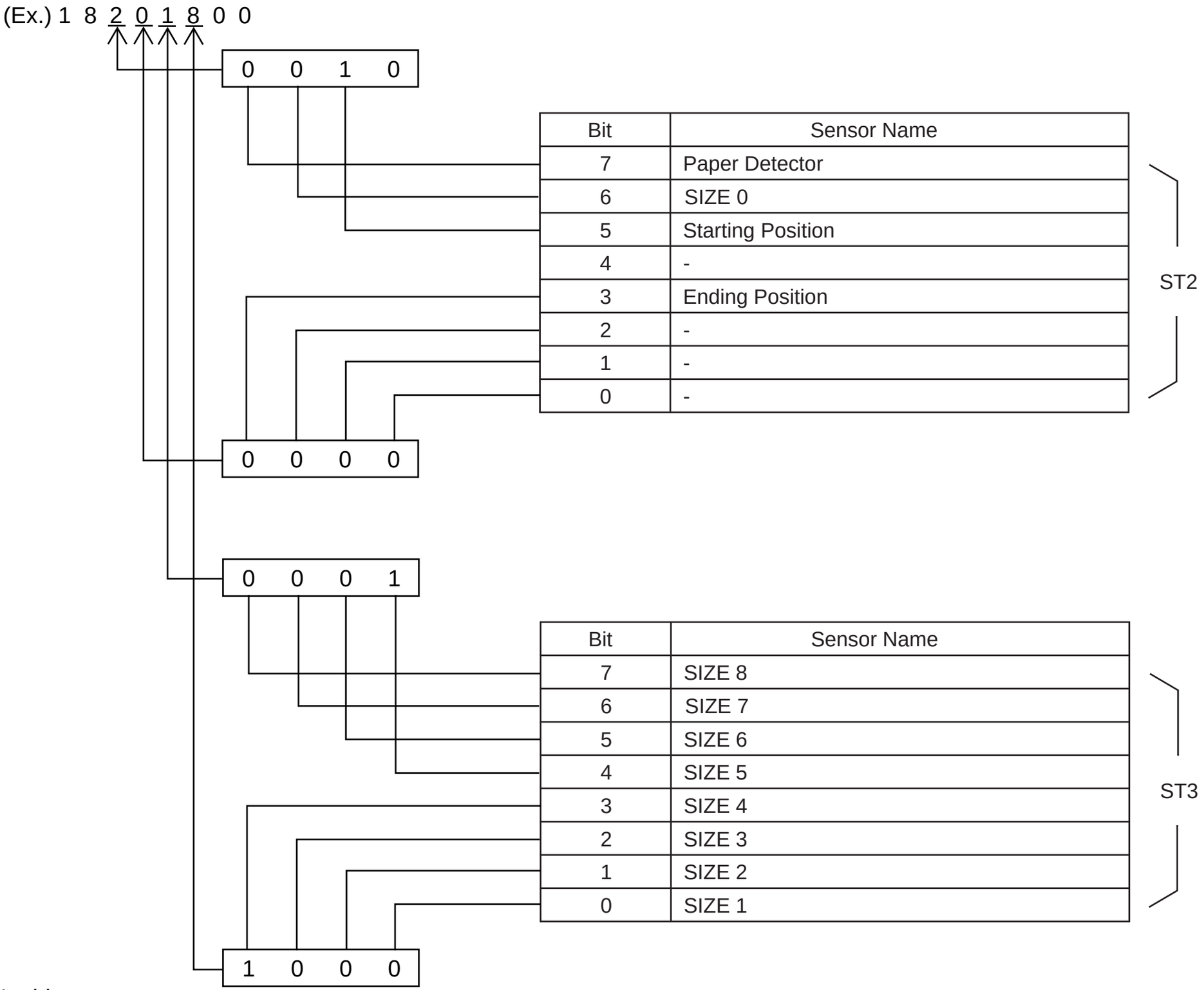
Classified Code	ST1	ST2	ST3	ST4	Content
U10	10	00	00	00	No Paper Error
U11	11	x	00	00	Paper Feed Jam (when paper does not reach Size Sensor 0): ST2 shows the rest numbers (approx.) of paper.
U12	12	x	00	00	Jam 1 (when paper does not reach Starting Position Sensor): ST2 shows the rest numbers (approx.) of paper.
U14	14	x	00	00	Jam 3 (when paper does not reach Ending Position Sensor): ST2 shows the rest numbers (approx.) of paper.
U16	16	x	00	00	Scan-out Jam 1 (when paper does not pass Ending Position Sensor): ST2 shows the rest numbers (approx.) of paper.
U18	18	x	00	00	Paper remain in scanner *(ST2: Paper position Information)
U20	19	00	00	00	Skew Error
U23	1C	x	x	00	Double Feed Error (ST2: Sensor Information) (ST3: 0=Document at wait position 1=No Document at wait position 2=Length 3=Supersonic Frequency)
U30	20	00	00	00	Front Door Open
U31	21	00	00	00	ADF Door Open
U34	24	00	00	00	Imprinter Door Open
U35	25	00	00	00	Document Cover Open
F40	30	x	00	00	Hopper Drive Error (ST2: 0=Up, 1=Down)
F41	31	x	00	00	Carriage Drive Error (ST2: 0=Backward direction 1=Forward direction)
F50	40	00	00	00	Size Sensor 0 Error
F51	41	00	00	00	Starting Position Sensor Error
F55	42	00	00	00	Ending Position Sensor Error
F60	50	00	00	00	Front side gain Error
F71	48	00	00	00	Size Sensor 1 Error
F72	49	00	00	00	Size Sensor 2 Error
F73	4A	00	00	00	Size Sensor 3 Error
F74	4B	00	00	00	Size Sensor 4 Error
F75	4C	00	00	00	Size Sensor 5 Error
F76	4D	00	00	00	Size Sensor 6 Error
F77	4E	00	00	00	Size Sensor 7 Error
F78	4F	00	00	00	Size Sensor 8 Error
F80	60	x	x	00	Double Feed Sensor Error (ST2: DA output value, STS3: AD input value)
F61	51	00	00	00	Front-side Black Level Error
F63	53	00	00	00	Back-side Black Level Error

Classified Code	ST1	ST2	ST3	ST4	Content
F68	54	x	x	00	Front-side Lamp Lighting Error (ST2: AD input Value, ST3: Peak value)
F69	55	x	x	00	Back-side Lamp Lighting Error (ST2: Lighting Value, ST3: Peak value)
U41	58	00	00	00	Scanning Position Adjustment (Auto Mode) Error
F10	80	00	00	00	Program ROM Error on MAIN CONTROL Board
F11	81	x	x	x	Work RAM Error on MAIN CONTROL Board (ST2: Data, ST3,4: Address)
F17	87	00	00	00	On Board DRAM Error
F18	88	00	00	00	DIMM1 Error
F20	8A	x	x	x	Shading RAM Error (ST2: Data)(ST3,4: Address)
F21	8B	x	x	x	Line RAM Error (ST2: Data)(ST3,4: Address)
F26	90	x	x	x	Patch RAM Error (ST2: Data)(ST3,4: Address)
F29	93	x	x	x	Front Gamma RAM Error (ST2: Data)(ST3,4: Address)
F30	94	x	x	x	Back Gamma RAM Error (ST2: Data)(ST3,4: Address)
F31	95	x	x	x	Dither RAM Error (ST2: Data)(ST3,4: Address)
F34	98	00	00	00	EEPROM Error
F36	9A	00	00	00	GA Sensor Error
F37	9B	x	x	x	GA Image Error (ST2: "01" means Overrun error. ST3: Front-side error code. ST4: Back-side error code.
U50	A0	00	00	00	Not installed I/F Board

Table 9-2

Note*

U18 Paper Position Information



In this case,
the Starting Position sensor
and Size 4 and 5 sensors
detect the paper

CN1002 (MAIN) - (CIS)

Pin No.	Signal Name	Description
1	CIS IN1	Contact Image Sensor Signal 1
2	AGND	Analog Ground
3	+5V	+5V
4	-5V	-5V
5	CISSP1	Start Pulse1 for CIS
6	GND	Ground
7	CISCLK1	Clock1 for CIS
8	GND	Ground

CN1003 (MAIN) - (CIS)

Pin No.	Signal Name	Description
1	CIS IN2	Contact Image Sensor Signal 2
2	AGND	Analog Ground
3	+5V	+5V
4	-5V	-5V
5	CISSP2	Start Pulse for CIS
6	GND	Ground
7	CISCLK2	Clock for CIS
8	GND	Ground
9	CIS SIZE DET1	CIS Size Detect 1
10	CIS SIZE DET2	CIS Size Detect 2

CN1006 (MAIN) - CN2001(MOTHER)

Pin No.	Signal Name	Description (S6055)
1	AGND	Ground
2	AGND	Ground
3	CCD(EVEN)	CCD Signal
4	-5V	-5V (for Analog)
5	CCD(ODD)	CCD Signal
6	AGND	Ground
7	CCD(ROG)	CCD Clock
8	GND	Ground
9	CCD(CLP)	CCD Clock
10	CCD(S/H)	CCD Clock
11	GND	Ground
12	CCD(RST)	CCD Clock
13	CCD(P2)	CCD Clock
14	CCD(P1)	CCD Clock
15	GND	Ground
16	CCDDET2	CCD Board Detection
17	+5VD	+5V (for Digital)
18	+5VA	+5V (for Analog)
19	CCDDET1	CCD Board Detection
20	+24V	+24V
21	+3VD	+3V (for Digital)
22	+3VD	+3V (for Digital)
23	+3VD	+3V (for Digital)
24	+3VD	+3V (for Digital)
25	+3VD	+3V (for Digital)
26	+3VD	+3V (for Digital)
27	+24V	+24V
28	GND	Ground
29	GND	Ground
30	GND	Ground
31	VSYNC	Page Enable
32	FEN	Front Line Enable
33	GND	Ground
34	BEN	Back Line Enable
35	VCLK	Not Used
36	RESERVE	Not Used

CN1006 (MAIN) - CN2001(MOTHER) (continued)

Pin No.	Signal Name	Description (S6055)
37	GND	Ground
38	FVD0	Front Data
39	FVD1	Front Data
40	FVD2	Front Data
41	FVD3	Front Data
42	FVD4	Front Data
43	FVD5	Front Data
44	FVD6	Front Data
45	GND	Ground
46	FVD7	Front Data
47	BVD0	Back Data
48	BVD1	Back Data
49	BVD2	Back Data
50	BVD3	Back Data
51	BVD4	Back Data
52	BVD5	Back Data
53	BVD6	Back Data
54	BVD7	Back Data
55	*CS(IMG)	Chip Select for GAIMG
56	*ACTTERM	Active Terminator Enable
57	GND	Ground
58	GND	Ground
59	TERMPC	Terminal Power Enable
60	RESERVE	Not Used
61	*IMGWAIT	Cpu Wait
62	TXD2(IF)	Not Used
63	RXD2(IF)	Not Used
64	RTS2(IF)	Not Used
65	CTS2(IF)	Not Used
66	*CS3(SCSI)	Chip Select for SCSI
67	*IRQ1(SCSI)	SCSI Interrupt Request
68	*IRQ(IMG)	GAIMG Interrupt Request
69	*CS	Chip Select for Conveyor Motor
70	*CS	Chip Select for Feed Motor
71	*CS	Chip Select for Carriage Motor
72	*CS	Chip Select for I/F Board Detect
73	*CS	Chip Select for Door Sensor
74	*CS	Chip Select for Key
75	*CS	Chip Select for Key
76	*CS	Chip Select for Size Sensor
77	GND	Ground
78	GND	Ground
79	*BUSEN	Bus Driver Enable
80	POWERCONT	Power Control
81	AN0	Double Feed
82	AN1	Idle Pos.
83	AN2	Feed
84	AN3	Exit (U-Turn)
85	AN4	Not used
86	AN5	Carridge Home
87	+5VD	+5V (for Digital)
88	+5VD	+5V (for Digital)
89	GND	Ground
90	*ANALOG LD	DAC Load (for Analog)
91	LEASCOUNT	Not Used
92	DALD	DAC Load (for sensor)
93	CLK40K	Ultra Sonic
94	DADATA	DAC Data
95	DACLK	DAC Clock
96	E(LCD)	LCD Enable
97	R/W(LCD)	LCD Read/Write Enable
98	RS(LCD)	LCD Resistor Select

CN1006 (MAIN) - CN2001 (MOTHER) (continued)

Pin No.	Signal Name	Description (S6055)
99	BUZZER	Buzzer Pulse
100	LED(RD)	LED(Red)
101	LED(GR)	LED(Green)
102	*CPURD	CPU Read
103	*CPUHWR	CPU Write
104	*CPUAS	CPU Address Strobe
105	GND	Ground
106	GND	Ground
107	*RESET	Reset
108	CPUA0	CPU Address
109	CPUA1	CPU Address
110	CPUA2	CPU Address
111	CPUA3	CPU Address
112	CPUA4	CPU Address
113	CPUA5	CPU Address
114	CPUA6	CPU Address
115	CPUA7	CPU Address
116	CPUA8	CPU Address
117	+5VD	+5V(for Digital)
118	CPUD8	CPU Data
119	CPUD9	CPU Data
120	CPUD10	CPU Data
121	CPUD11	CPU Data
122	CPUD12	CPU Data
123	CPUD13	CPU Data
124	CPUD14	CPU Data
125	GND	Ground
126	CPUD15	CPU Data
127	*RESET(IMP)	Reset(for Imprinter)
128	*POSTIMP SP	Not Used
129	CTS1(POST)	Not Used
130	RTS1(POST)	Not Used
131	RXD1(POST)	Not Used
132	TXD1(POST)	Not Used
133	*PREIMP SP	Start Pulse for Pre Imprinter
134	CTS0(PRE)	CTS(for Pre Imprinter)
135	RTS0(PRE)	RTS(for Pre Imprinter)
136	RXD0(PRE)	RXD(for Pre Imprinter)
137	TXD0(PRE)	TXD(for Pre Imprinter)
138	DALD2	DAC Load(Motor Drive)
139	GND	Ground
140	GND	Ground

CN602(SCSI) - CN2002(MOTHER)

Pin No.	Signal Name	Description
1	GND	Ground
2	GND	Ground
3	*RESET	Reset
4	+3VD	+3V(for Digital)
5	+3VD	+3V(for Digital)
6	*CPUAS	CPU Address Strobe
7	*CPUHWR	CPU Write
8	*CPURD	CPU Read
9	GND	Ground
10	GND	Ground
11	CPUD15	CPU Data
12	CPUD14	CPU Data
13	CPUD13	CPU Data
14	CPUD12	CPU Data
15	+5VD	+5V(for Digital)
16	+5VD	+5V(for Digital)
17	CPUD11	CPU Data
18	CPUD10	CPU Data
19	CPUD9	CPU Data
20	CPUD8	CPU Data

CN602 (SCSI) - CN2002 (MOTHER) (continued)

Pin No.	Signal Name	Description
21	GND	Ground
22	GND	Ground
23	CPUA8	CPU Address
24	CPUA7	CPU Address
25	CPUA6	CPU Address
26	CPUA5	CPU Address
27	CPUA4	CPU Address
28	CPUA3	CPU Address
29	CPUA2	CPU Address
30	CPUA1	CPU Address
31	CPUA0	CPU Address
32	+5VD	+5V(for Digital)
33	GND	Ground
34	GND	Ground
35	*VERCS	Chip Select for I/F Board Detect
36	*IRQ(IMG)	GAIMG Interrupt Request
37	*IRQ1(SCSI)	SCSI Interrupt Request
38	*CS3(SCSI)	Chip Select for SCSI
39	CTS2(IF)	Not Used
40	RTS2(IF)	Not Used
41	+3VD	+3V(for Digital)
42	RXD2(IF)	Not Used
43	TXD2(IF)	Not Used
44	*SCWAIT	CPU Wait
45	TERMPC	Terminal Power Control
46	*ACTTERM	Active Terminator Enable
47	*CS(IMG)	Chip Select for GAIMG
48	BVD7	Back Data
49	GND	Ground
50	GND	Ground
51	BVD6	Back Data
52	BVD5	Back Data
53	BVD4	Back Data
54	BVD3	Back Data
55	BVD2	Back Data
56	BVD1	Back Data
57	+3VD	+3V(for Digital)
58	BVD0	Back Data
59	FVD7	Front Data
60	FVD6	Front Data
61	FVD5	Front Data
62	GND	Ground
63	GND	Ground
64	FVD4	Front Data
65	FVD3	Front Data
66	FVD2	Front Data
67	FVD1	Front Data
68	FVD0	Front Data
69	+3VD	+3V(for Digital)
70	+3VD	+3V(for Digital)
71	GND	Ground
72	BCLK	Not Used
73	FCLK	Not Used
74	BEN	Back Line Enable
75	FEN	Front Line Enable
76	GND	Ground
77	VSYNC	Page Enable
78	+5VD	+5V(for Digital)
79	GND	Ground
80	GND	Ground

CN2003(MOTHER) - CN331(DRIVE)

Pin No.	Signal Name	Description (S6055)
1	LD0	Local Data Bus
2	*DEC2	Chip Select for Feed Motor
3	*DEC3	Chip Select for Carriage Motor
4	SKEW	Sensor Comparater Level
5	DACDI	DAC Data
6	DACCLK	DAC Clock
7	DACLD	DAC Load
8	+38V	+38V
9	VCC	+5V
10	GND	Ground
11	GND	Ground
12	GND	Ground
13	GND	Ground
14	GND	Ground
15	GND	Ground
16	GND	Ground
17	+24V	+24V
18	+24V	+24V
19	+24V	+24V
20	+24V	+24V
21	LD1	Local Data Bus
22	*RESET	Reset
23	LD2	Local Data Bus
24	LD3	Local Data Bus
25	*DEC1	Chip Select for Conveyor Motor
26	LD4	Local Data Bus
27	LD5	Local Data Bus
28	LD6	Local Data Bus
29	LD7	Local Data Bus
30	VCC	+5V
31	gain1	CCD Gain Select
32	LAMP1	Lamp Enable
33	GND	Ground
34	GND	Ground
35	GND	Ground
36	DOOR2	Door Sensor
37	DOOR1	Door Sensor
38	+24V	+24V
39	+24V	+24V
40	+24V	+24V

CN2007(MOTHER) - CN536(PANEL)

Pin No.	Signal Name	Description
1	LD0	L-Data 0
2	LD1	L-Data 1
3	LD2	L-Data 2
4	LD3	L-Data 3
5	LD4	L-Data 4
6	LD5	L-Data 5
7	LD6	L-Data 6
8	LD7	L-Data 7
9	+5VS	+5V
10	+5VS	+5V
11	+12VS	+12V
12	LCD RS	LCD Resistor Select
13	LCD RW	LCD Read/Write Enable
14	LCD E	LCD Enable
15	BUZZER	Buzzer Pulse
16	KEY1	KEY1 Enable
17	KEY2	KEY2 Enable
18	LEDGR	LED(Green)
19	LEDRD	LED(Red)
20	GND	Ground
21	GND	Ground
22	GND	Ground

CN2005(MOTHER) - CN862(DC/DC)

Pin No.	Signal Name	Description
1	+24V(Switched)	+24V(Switched)
2	+24V(Switched)	+24V(Switched)
3	GND	Ground
4	GND	Ground
5	+5V	+5V (for Digital)
6	+5V	-5V (for Digital)
7	+24V	+24V
8	GND	Ground
9	+5VA	+5V (for Analog)
10	-5VA	-5V (for Analog)
11	STB	+24V Enable
12	+3.3VOVP	+3.3V Over Voltage Detection

CN351(DRIVE) - Paper Feed Motor

Pin No.	Signal Name	Description
1	*FA	Feed Motor Phase-A(-)
2	-	N.C.
3	FCOMA	24V for Feed Motor
4	FA	Feed Motor Phase-A(+)
5	*FB	Feed Motor Phase-B(-)
6	FCOMB	24V for Feed Motor
7	FB	Feed Motor Phase-B(+)

CN341(DRIVE) - Conveyor Motor

Pin No.	Signal Name	Description
1	*CA	Conveyor Motor Phase-A(-)
2	CCOMA	+24V for Conveyor Motor
3	CA	Conveyor Motor Phase-A(+)
4	*CB	Conveyor Motor Phase-B(-)
5	CCOMB	+24V for Conveyor Motor
6	CB	Conveyor Motor Phase-B(+)

CN361(DRIVE) - CARRIAGE MOTOR

Pin No.	Signal Name	Description
1	*RA	Carriage Motor Phase-A(-)
2	-	N.C.
3	RCOMA	24V for Carriage Motor
4	RA	Carriage Motor Phase-A(+)
5	*RB	Carriage Motor Phase-B(-)
6	RCOMB	24V for Carriage Motor
7	RB	Carriage Motor Phase-B(+)
8	-	N.C.

CN332(DRIVE) - 24V INTERLOCK SWITCH

Pin No.	Signal Name	Description
1	+24V3	ADF Switch for +24V
2	+24V2	ADF Conveyor Switch for +24V
3	+24V2	ADF Conveyor Switch for +24V
4	+24V1	+24V

CN372(DRIVE) - (CIS)

Pin No.	Signal Name	Description
1	-	N.C.
2	GREEN	Green
3	GND	Ground
4	RED	Red
5	-	N.C.

CN801(POWER) - POWER SWITCH

Pin No.	Signal Name	Description
1	NEUTRAL	Neutral
2	-	N.C.
3	LIVE	Live

CN803(POWER) - Fan

Pin No.	Signal Name	Description
1	+24VOVP	+24V
2	-	N.C.
3	FAN	Fan

Power Switch - AC Inlet

Pin No.	Signal Name	Description
1	NEUTRAL	Neutral
2	-	N.C.
3	LIVE	Live

CN2010(MOTHER) - CN501(RELAY [BACK])

Pin No.	Signal Name	Description
1	CTS0	CTS0 for Pre Imprinter
2	TXD0	TXD0 for Pre Imprinter
3	RTS0	RTS0 for Pre Imprinter
4	RXD0	RXD0 for Pre Imprinter
5	IMP RST	Imprinter Reset
6	PREIMPSP	Start Pulse for Post imprinter Door Sensor
7	+5V	+5V
8	38V	38V
9	38V	38V
10	+12V	+12V
11	GND	Ground
12	GND	Ground
13	CLK40K	Clock output 40kHz
14	+5V	+5V
15	DFGAIN	
16	+24V	+24V
17	GND	Ground
18	SIZE 0	Paper Size Sensor 0
19	SIZE 1	Paper Size Sensor 1
20	SIZE 2	Paper Size Sensor 2
21	SIZE 3	Paper Size Sensor 3
22	SIZE 4	Paper Size Sensor 4
23	SIZE 5	Paper Size Sensor 5
24	SIZE 6	Paper Size Sensor 6
25	SIZE 7	Paper Size Sensor 7
26	SIZE 8	Paper Size Sensor 8
27	DOOR IMP	Imprinter Door Status
28	+5V	+5V

CN2009(MOTHER) - CN504(RELAY [BACK])

Pin No.	Signal Name	Description
1	GND	Ground
2	GND	Ground
3	-	N.C.
4	START LED	Starting LED
5	RETARD	Retard
6	FB DOOR	Flat Bed Door Status
7	END LED	Ending LED
8	END POS	Ending Position
9	HOPP MID	Hopper MID
10	HOPP POS	Hopper Position
11	PAPER RF	LED Current Control
12	PAPER	Paper
13	START POS	Paper Position
14	DBL FEED	Double Feed
15	+12V	+12V
16	SIZE 0	Paper Size LED 0
17	SIZE 1	Paper Size LED 1
18	SIZE 2	Paper Size LED 2
19	SIZE 3	Paper Size LED 3
20	SIZE 4	Paper Size LED 4
21	SIZE 5	Paper Size LED 5
22	SIZE 6	Paper Size LED 6
23	SIZE 7	Paper Size LED 7
24	SIZE 8	Paper Size LED 8
25	+5V	+5V
26	+5V	+5V

CN2011(MOTHER) - CN516 (CARRIAGE HOME DETECTOR)

Pin No.	Signal Name	Description
1	GND	Ground
2	CARRIAGE	Carriage
3	-	N.C.
4	VCC	+5V

CN2008(MOTHER) - CN001(CCD Board)

Pin No.	Signal Name	Description (S6055)
1	+24V	+24V
2	+24V	+24V
3	GND	Ground
4	GND	Ground
5	LAMP SW1	LAMP SW1
6	LAMP SW2	LAMP SW2
7	CCDDET2	CCD Board detect 2
8	AGND	Analog Ground
9	AGND	Analog Ground
10	CCD ODD	CCD ODD DATA
11	AGND	Analog Ground
12	CCD EVEN	CCD EVEN DATA
13	GND	Ground
14	CCDDET1	CCD Board detect 1
15	VCC	+5V
16	DAC DATA	DAC Data
17	DAC CLK	DAC Clock
18	CCD CLMP	CCD Clamp
19	ANLG LD	Analog Control Signal Strobe
20	GAIN2	GAIN 2
21	GAIN1	GAIN 1
22	GND	Ground
23	CCD ROG	CCD ROG
24	CCD P1	CCD DATA Clock 1
25	CCD P2	CCD DATA Clock 2
26	GND	Ground
27	GND	Ground
28	CCD RST	CCD RESET pulse
29	GND	Ground
30	CCD SH	CCD Sample Hold
31	GND	Ground
32	GND	Ground
33	-5V	-5V
34	+12V	+12V

CN503(RELAY [BACK]) - Imprinter (Option)

Pin No.	Signal Name	Description
1	CTS0	CTS0 for imprinter serial interface
2	TXD0	TXD0 for imprinter serial interface
3	RTS0	RTS0 for imprinter serial interface
4	RXD0	RXD0 for imprinter serial interface
5	IMP RST	Imprinter Reset
6	SP	Start Signal
7	VCC	+5V
8	+38V	+38V
9	+38V	+38V
10	+12VS	+12V
11	GND	Ground
12	GND	Ground

CN802(POWER) - CN861(DC-DC)

Pin No. (CN802)	Signal Name	Description	Pin No. (CN861)
1	-5VOVP	-5V Over Voltage Detection	11
2	+3.3VOVP	+3.3V Over Voltage Detection	10
3	+5VOVP	+5V Over Voltage Detection	9
4	GND	Ground	8
5	GND	Ground	7
6	GND	Ground	6
7	+24V(SWITCHED)	+24V(Switched)	5
8	+24V(SWITCHED)	+24V(Switched)	4
9	+24V	+24V	3
10	+24V	+24V	2
11	STB	+24V Enable	1

CN002 (CCD Board)-LAMP DRIVE

Pin No.	Signal Name	Description
1	GND	Ground
2	LAMP1	Lamp Control 1
3	GND	Ground
4	24V	+24V

CN529 (HOPPER HOME SENSOR)-CN537 (DOCUMENT DETECTOR)

Pin No.	Signal Name	Description
1	GND	Ground
2	PAPER	Paper
3	FG	Flame Ground
4	+5V	+5V

CN526 (ENDING POSITION LED)-CN527 (DOCUMENT COVER DETECTOR)

Pin No.	Signal Name	Description
1	GND	Ground
2	FB DOOR	FB DOOR status
3	+5V	+5V
4	+5V	+5V

CN531 (ENDING POSITION SENSOR) - CN530 (HOPPER HOME SENSOR)

Pin No.	Signal Name	Description
1	GND	Ground
2	GND	Ground
3	HOPP POS	Hopper Position
4	PAPER	Paper
5	+5V	+5V
6	+5V	+5V
7	-	N.C.

CN513 (RELAY [BACK]) - CN525 (ENDING POSITION LED)

Pin No.	Signal Name	Description
1	GND	Ground
2	GND	Ground
3	FB DOOR	Flat-Bed Door Sig.
4	END LED	Ending LED
5	+5V	+5V
6	+5V	+5V

CN522 (RELAY [BACK]) - CN521 (SIZE SENSOR)

Pin No.	Signal Name	Description
1	GND	Ground
2	GND	Ground
3	-	N.C.
4	-	N.C.
5	-	N.C.
6	SIZE 0	Paper Size Sensor 0
7	SIZE 1	Paper Size Sensor 1
8	SIZE 2	Paper Size Sensor 2
9	SIZE 3	Paper Size Sensor 3
10	SIZE 4	Paper Size Sensor 4
11	SIZE 5	Paper Size Sensor 5
12	SIZE 6	Paper Size Sensor 6
13	SIZE 7	Paper Size Sensor 7
14	SIZE 8	Paper Size Sensor 8
15	+5V	+5V
16	+5V	+5V

CN515 (RELAY [BACK]) - CN518 (STARTING POSITION LED)

Pin No.	Signal Name	Description
1	START LED	Starting LED
2	-	N.C.
3	-	N.C.
4	-	N.C.
5	+5V	+5V

CN502 (RELAY [BACK]) - CN534 (DOUBLE FEED DETECTOR (G))

Pin No.	Signal Name	Description
1	+24V	+24V
2	+24V	+24V
3	+5V	+5V
4	-	N.C.
5	DFGAIN	Double-Feed Gain Sig.
6	CLK40K	Clock Output 40kHz
7	GND	Ground
8	GND	Ground

CN505 (RELAY [BACK]) - CN509 (RELAY [SIDE])

Pin No.	Signal Name	Description (S6055)
1	GND	Ground
2	GND	Ground
3	GND	Ground
4	-	N.C.
5	RETARD	Retard
6	END POS	Ending Position
7	HOPP MID	Hopper MID
8	HOPP POS	Hopper POS
9	PAPER RF	LED Current Control
10	PAPER	Paper
11	START POS	Paper Position
12	DBL FEED	Double Feed
13	+12V	-12V
14	SIZE LED 0	Paper Size LED 0
15	SIZE LED 1	Paper Size LED 1
16	SIZE LED 2	Paper Size LED 2
17	SIZE LED 3	Paper Size LED 3
18	SIZE LED 4	Paper Size LED 4
19	SIZE LED 5	Paper Size LED 5
20	SIZE LED 6	Paper Size LED 6
21	SIZE LED 7	Paper Size LED 7
22	SIZE LED 8	Paper Size LED 8
23	+5V	+5V
24	+5V	+5V

CN511 (RELAY [SIDE]) - CN520 (STARTING POSITION SENSOR)

Pin No.	Signal Name	Description
1	GND	Ground
2	GND	Ground
3	START POS	Starting Position
4	DBL FEED	Double Feed
5	+12V	+12V
6	+5V	+5V
7	+5V	+5V

CN510 (RELAY [SIDE]) - CN524 (SIZE LED)

Pin No.	Signal Name	Description
1	SIZE LED 2	Paper Size LED 2
2	SIZE LED 0	Paper Size LED 0
3	SIZE LED 4	Paper Size LED 4
4	SIZE LED 1	Paper Size LED 1
5	SIZE LED 6	Paper Size LED 6
6	SIZE LED 3	Paper Size LED 3
7	SIZE LED 8	Paper Size LED 8
8	SIZE LED 5	Paper Size LED 5
9	+5V	+5V
10	SIZE LED 7	Paper Size LED 7

CN514 (RELAY [SIDE]) - CN517 (RETARD POSITION DETECTOR)

Pin No.	Signal Name	Description
1	GND	Ground
2	GND	Ground
3	RETARD	Retard
4	+5V	+5V
5	+5V	+5V

CN512 (RELAY [SIDE]) - CN532 (ENDING POSITION SENSOR)

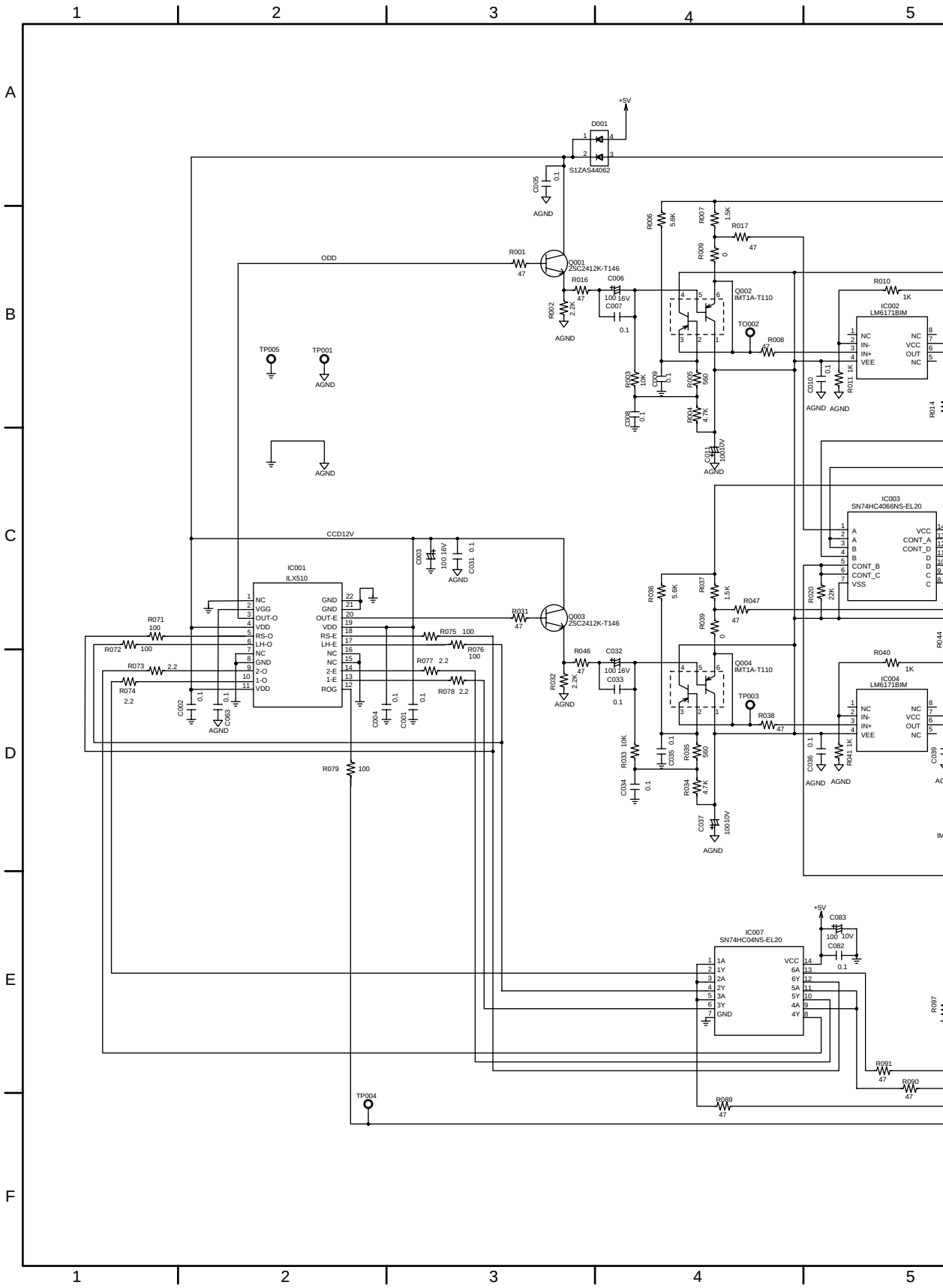
Pin No.	Signal Name	Description
1	GND	Ground
2	GND	Ground
3	END POS	Ending Position
4	HOPP POS	Hopper Position
5	PAPER RF	LED Current Control
6	PAPER	Paper
7	+5V	+5V
8	+5V	+5V

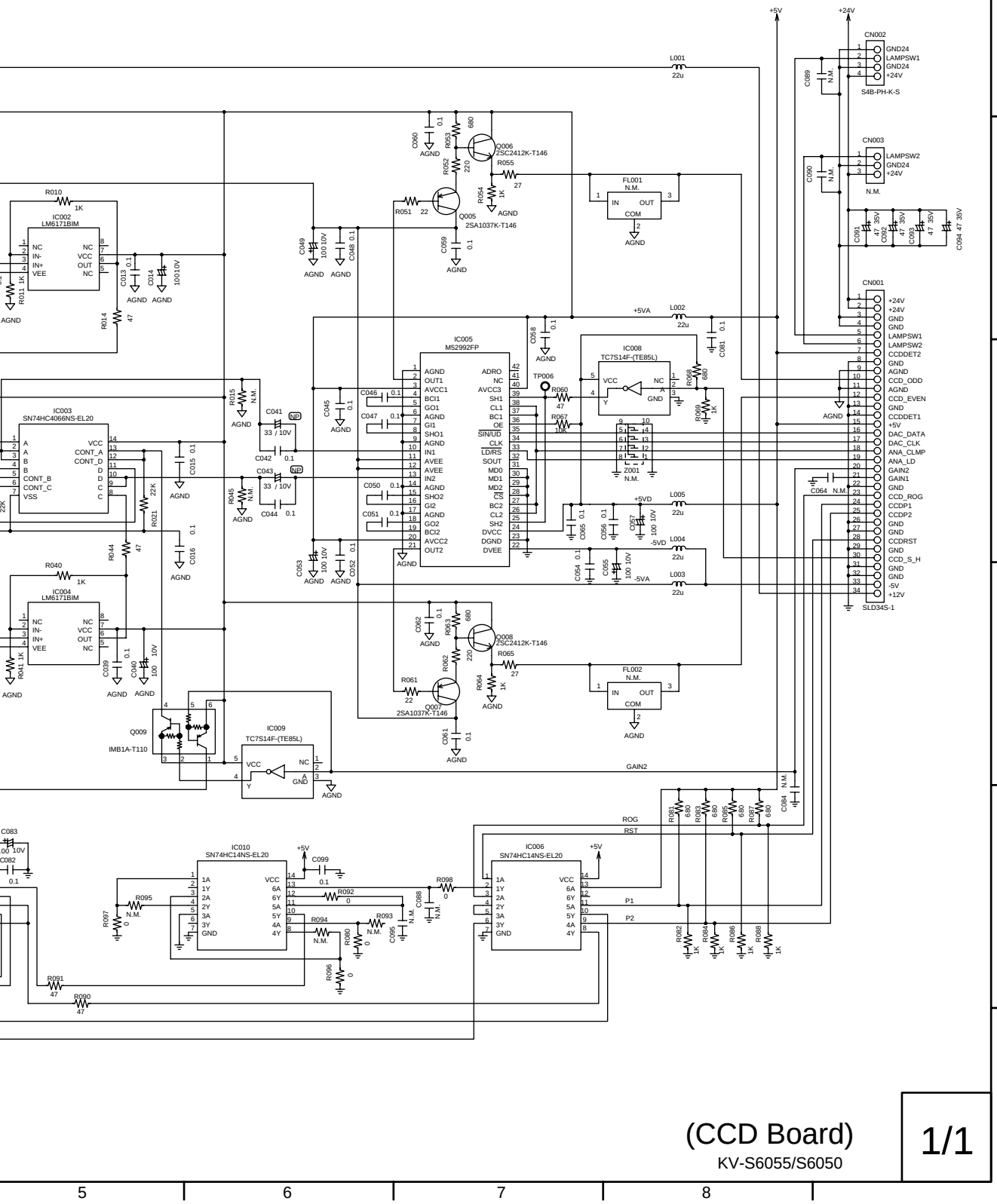
CN538 (DOCUMENT DETECTOR)-DOCUMENT DETECTOR

Pin No.	Signal Name	Description
1	GND	Ground
2	PAPER	Paper
3	FG	Flame
4	+5V	+5V

CN535 (DOUBLE FEED DETECTOR (G)) - CN519 (STARTING POSITION SENSOR)

Pin No.	Signal Name	Description
1	GND	Ground
2	GND	Ground
3	DBL FEED	Double Feed Sig.
4	-	NC
5	+12V	+12V
6	+12V	+12V


+5V
D001
S1ZAS44062
C005 0.1
AGND
ODD
R001 47
Q001 2SC2412K-T146
R016 47
C006 100 16V
C007 0.1
R002 2.2K
R006 5.6K
R007 1.5K
R017 47
R009 0
Q002 IMT1A-T110
TO002
R008 47
R010 1K
IC002 LM6171BIM
C010 0.1
R011 1K
R003 1K
C009 0.1
R005 560
C008 0.1
R004 4.7K
C011 100 10V
TP005
TP001
CCD12V
C003 100 16V
C031 0.1
IC001 ILX510
R071 100
R072 100
R073 2.2
R074 2.2
C002 0.1
C063 0.1
R075 100
R076 100
R077 2.2
R078 2.2
C004 0.1
C001 0.1
R079 100
R031 47
Q003 2SC2412K-T146
R046 47
C032 100 16V
C033 0.1
R032 2.2K
R038 5.6K
R037 1.5K
R039 0
R047 47
Q004 IMT1A-T110
TP003
R038 47
R040 1K
IC004 LM6171BIM
C036 0.1
R041 1K
R033 10K
C035 0.1
R025 560
C034 0.1
R034 4.7K
C037 100 10V
IC003 SN74HC4066NS-EL20
R020 22K
IC007 SN74HC04NS-EL20
C083
C082 100 10V 0.1
R091 47
R090 47
R089 47
TP004



(CCD Board)

KV-S6055/S6050

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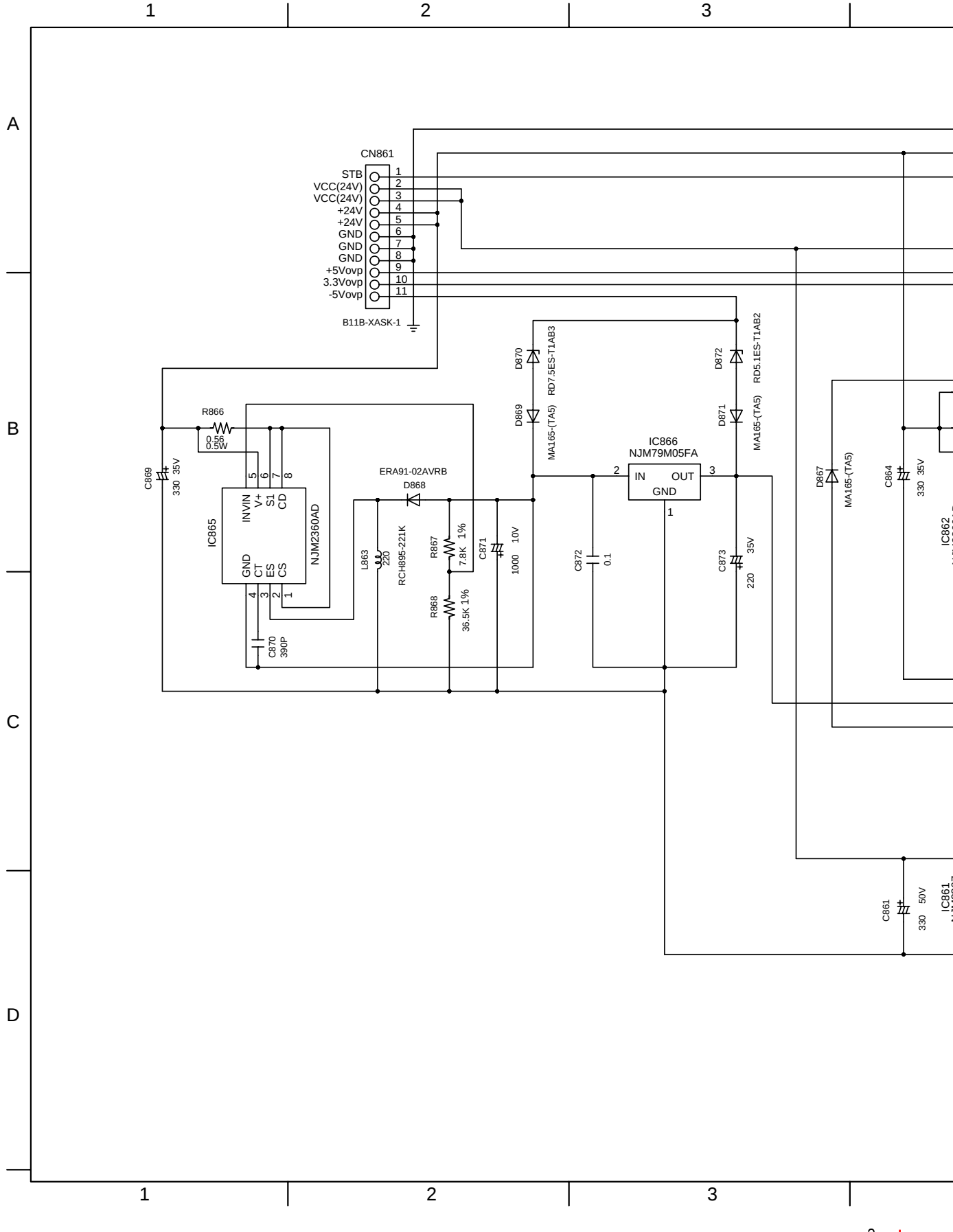
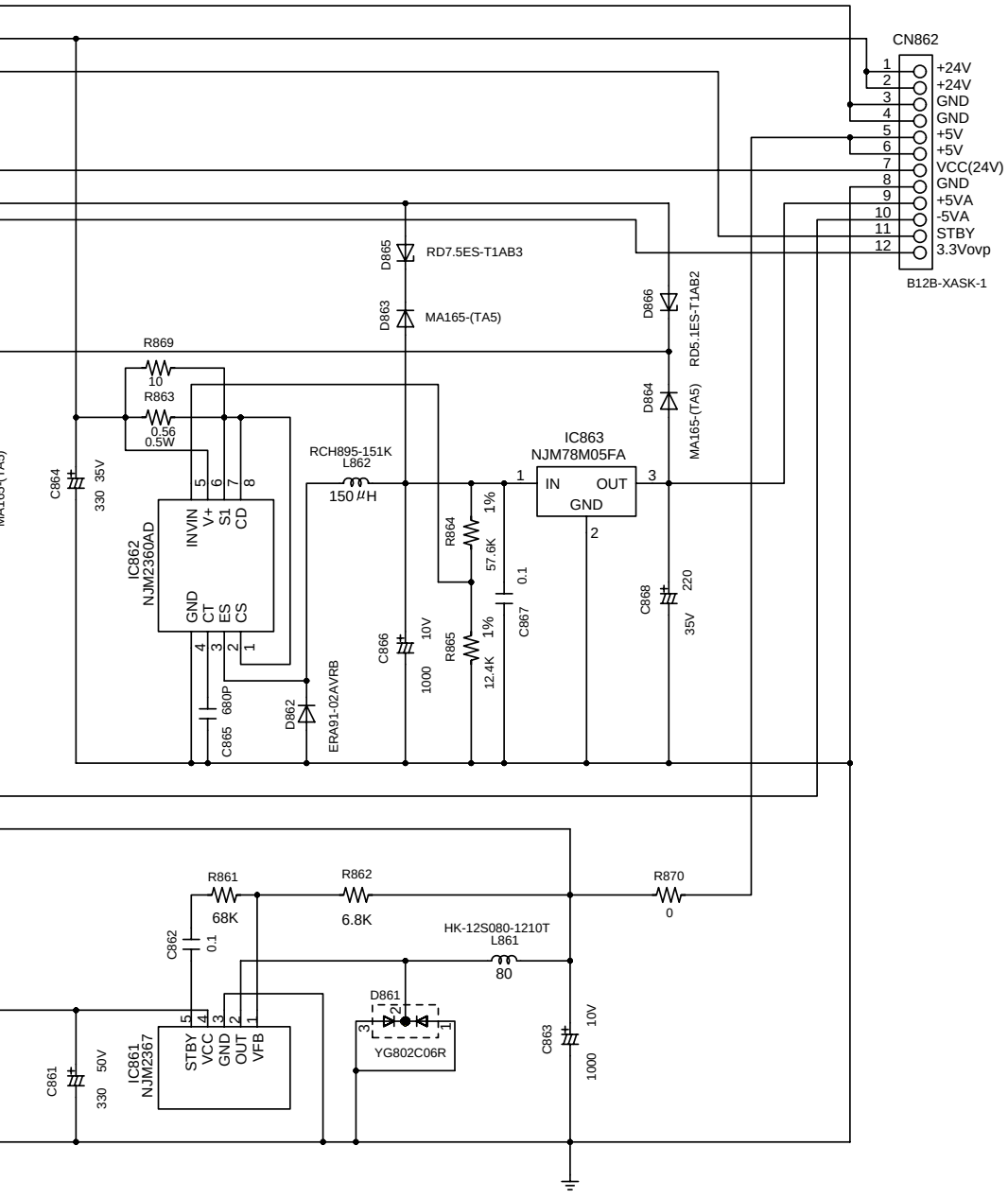

CN861
STB
VCC(24V)
VCC(24V)
+24V
+24V
GND
GND
GND
+5Vovp
3.3Vovp
-5Vovp
B11B-XASK-1
R866
0.56
0.5W
C869
330 35V
IC865
INVIN
V+
S1
CD
GND
CT
ES
CS
NJM2360AD
C870
390P
ERA91-02AVRB
D868
L863
220
RCH895-221K
R867
7.8K 1%
R868
36.5K 1%
C871
1000 10V
D870
RD7.5ES-T1AB3
D869
MA165-(TA5)
D872
RD5.1ES-T1AB2
D871
MA165-(TA5)
IC866
NJM79M05FA
IN
OUT
GND
C872
0.1
C873
220 35V
D867
MA165-(TA5)
C864
330 35V
IC862
C861
330 50V
IC861



(DC-DC Converter Board)

KV-S2065/S6055/S6050

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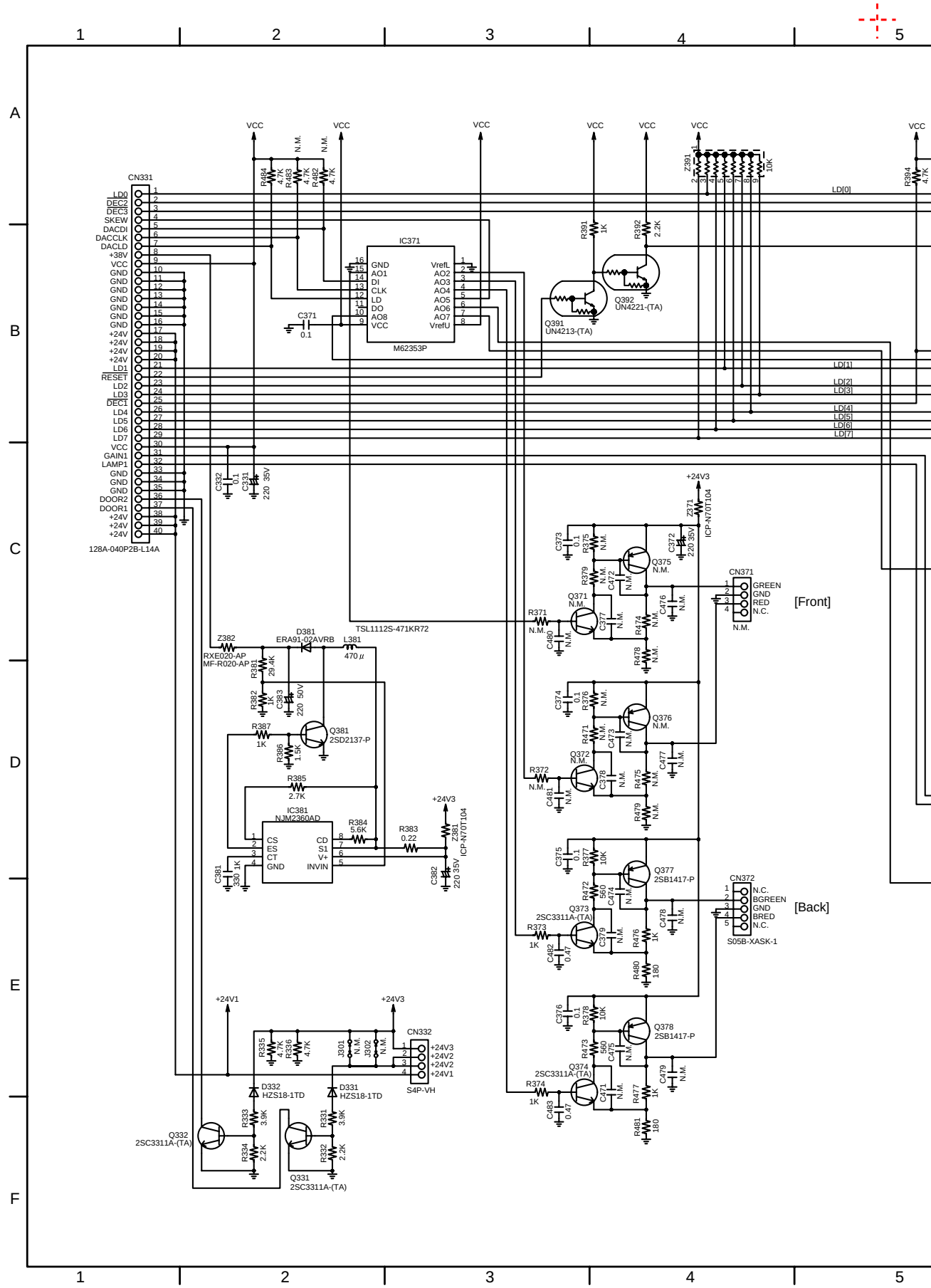
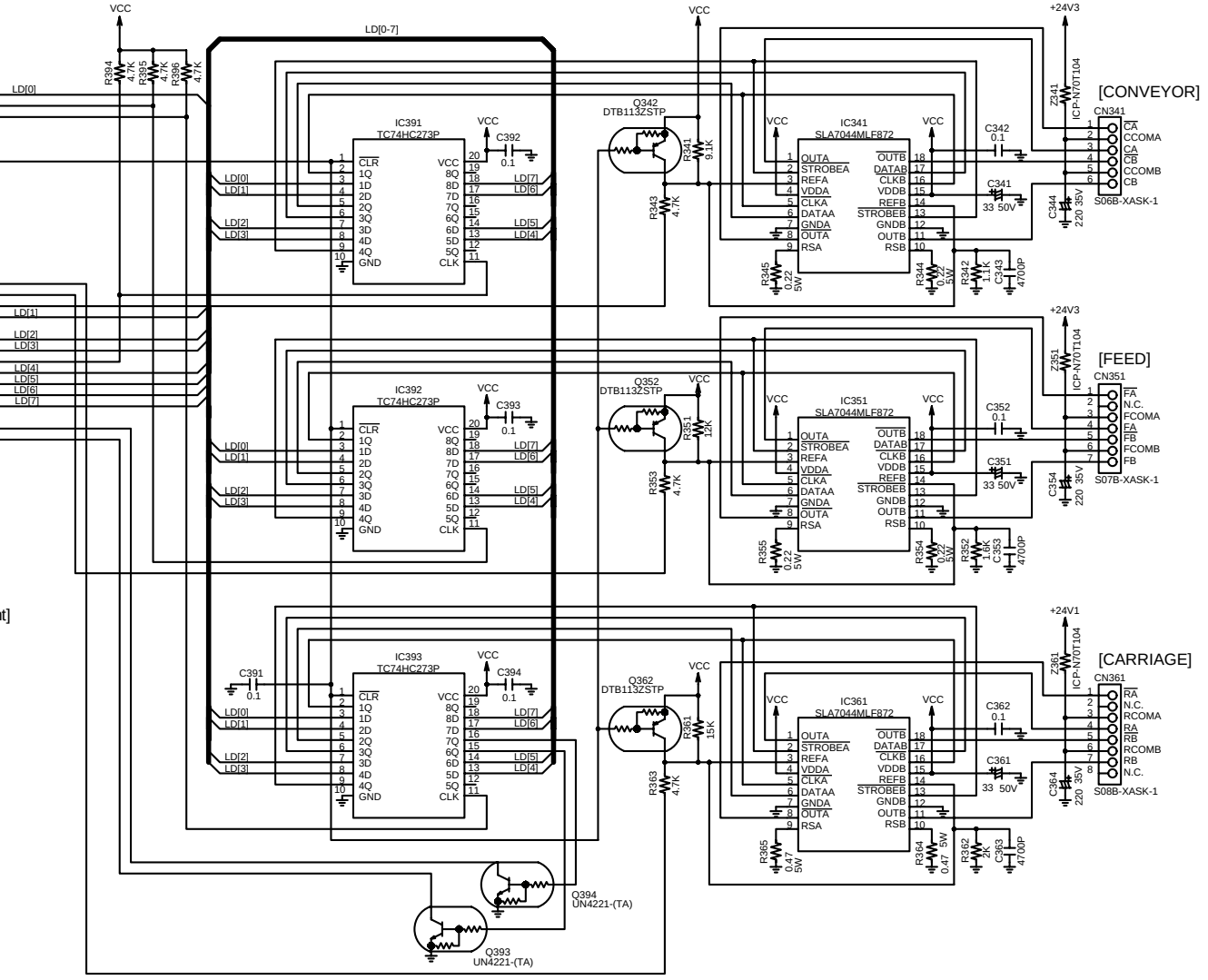

CN331
128A-040P2B-L14A
LD0
DEC2
DEC3
SKEW
DACDI
DACCLK
DACLD
+38V
VCC
GND
+24V
LD1
RESET
LD2
LD3
DEC1
LD4
LD5
LD6
LD7
GAIN1
LAMP1
DOOR2
DOOR1
IC371
M62353P
GND
AO1
DI
CLK
LD
DO
AO8
VCC
VrefL
AO2
AO3
AO4
AO5
AO6
AO7
VrefU
C371
0.1
R484
R483
R482
4.7K
N.M.
R391
1K
R392
2.2K
Q391
UN4213-(TA)
Q392
UN4221-(TA)
Z391
10K
R394
LD[0]
LD[1]
LD[2]
LD[3]
LD[4]
LD[5]
LD[6]
LD[7]
C332
0.1
C331
220 35V
Z371
ICP-N70T104
+24V3
C373
C372
R375
R379
C472
Q375
Q371
C377
C476
R371
C480
R474
R478
CN371
GREEN
GND
RED
N.C.
[Front]
C374
R376
Q376
R471
C473
Q372
C378
R372
C481
R475
R479
C375
R377
Q377
2SB1417-P
R472
C474
Q373
2SC3311A-(TA)
C379
R373
C482
R476
R480
CN372
N.C.
BGREEN
GND
BRED
N.C.
[Back]
S05B-XASK-1
C376
R378
Q378
R473
C475
Q374
C471
R374
C483
R477
R481
TSL1112S-471KR72
Z382
RXE020-AP
MF-R020-AP
D381
ERA91-02AVRB
L381
470 μ
R381
29.4K
R382
1K
C383
220 50V
R387
1K
Q381
2SD2137-P
R386
1.5K
R385
2.7K
IC381
NJM2360AD
CS
ES
CT
GND
CD
S1
V+
INVIN
R384
5.6K
R383
0.22
C381
330 1K
C382
220 35V
Z381
ICP-N70T104
+24V1
+24V3
R335
R336
4.7K
J301
J302
CN332
+24V3
+24V2
+24V2
+24V1
S4P-VH
D332
HZS18-1TD
D331
HZS18-1TD
R333
R331
3.9K
R334
R332
2.2K
Q332
2SC3311A-(TA)
Q331
2SC3311A-(TA)



(Drive Board)

KV-S6055/S6050

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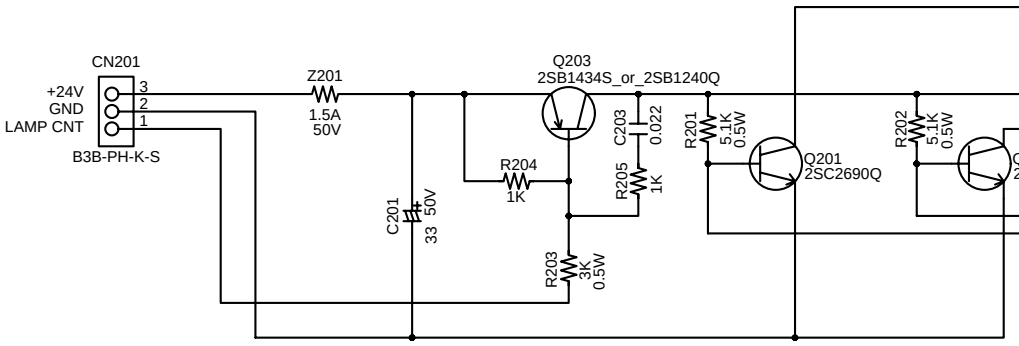
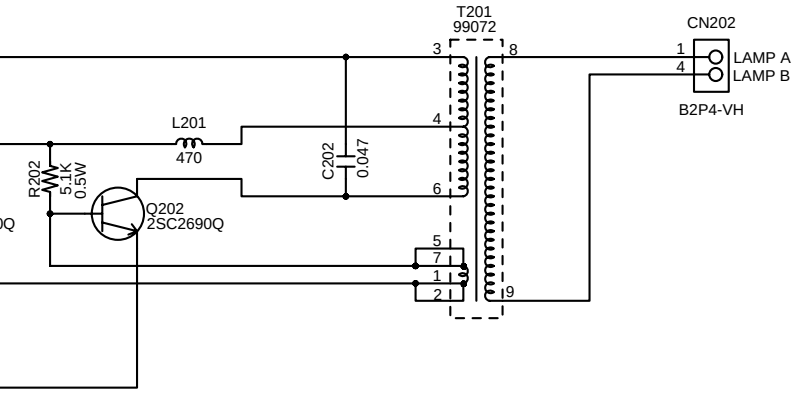

CN201
+24V
GND
LAMP CNT
3
2
1
B3B-PH-K-S
Z201
1.5A
50V
Q203
2SB1434S_or_2SB1240Q
C203
0.022
R201
5.1K
0.5W
R202
5.1K
0.5W
R204
1K
R205
1K
C201
33 50V
R203
3K
0.5W
Q201
2SC2690Q



(Inverter Board)

KV-S6055/S6050

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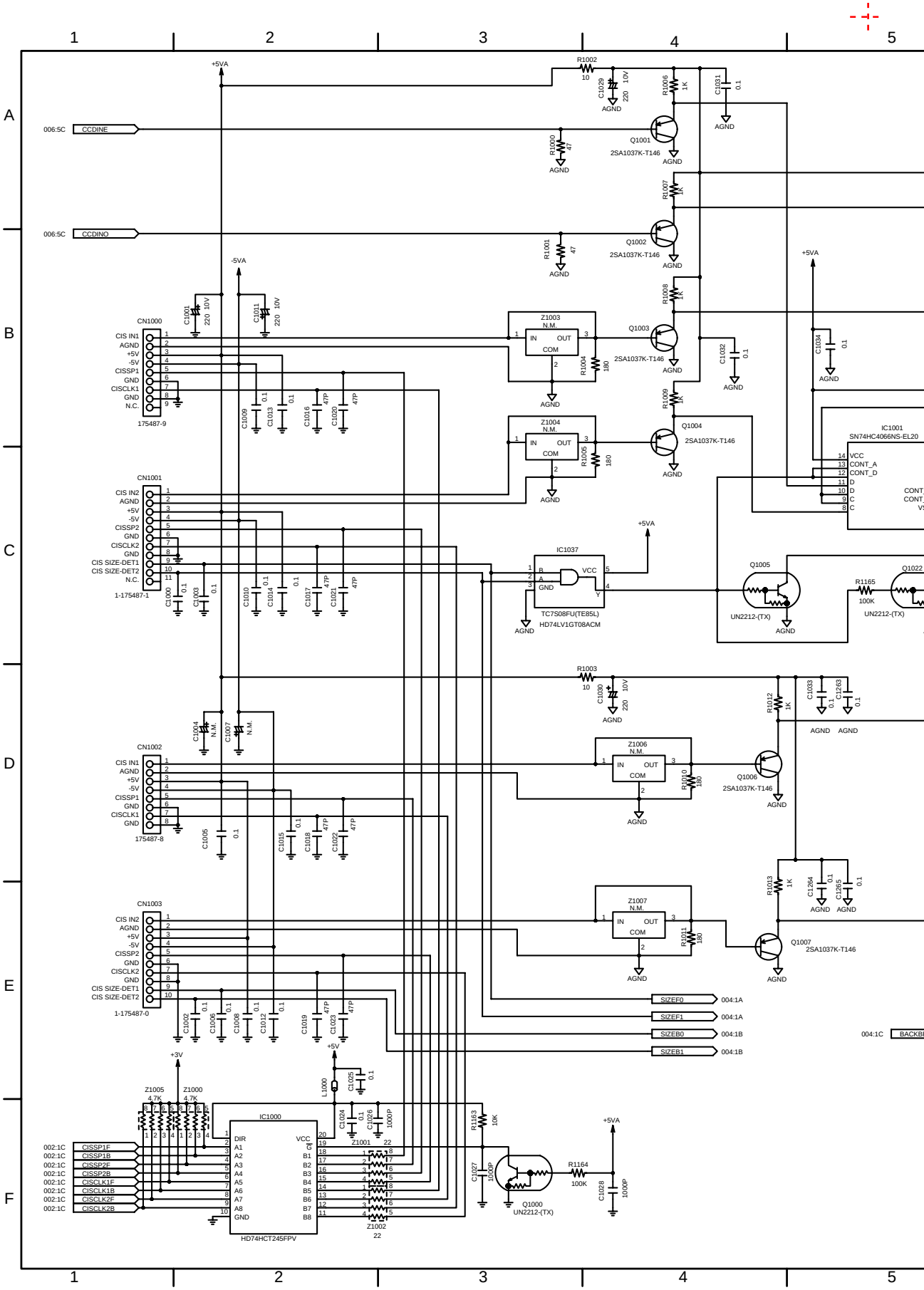
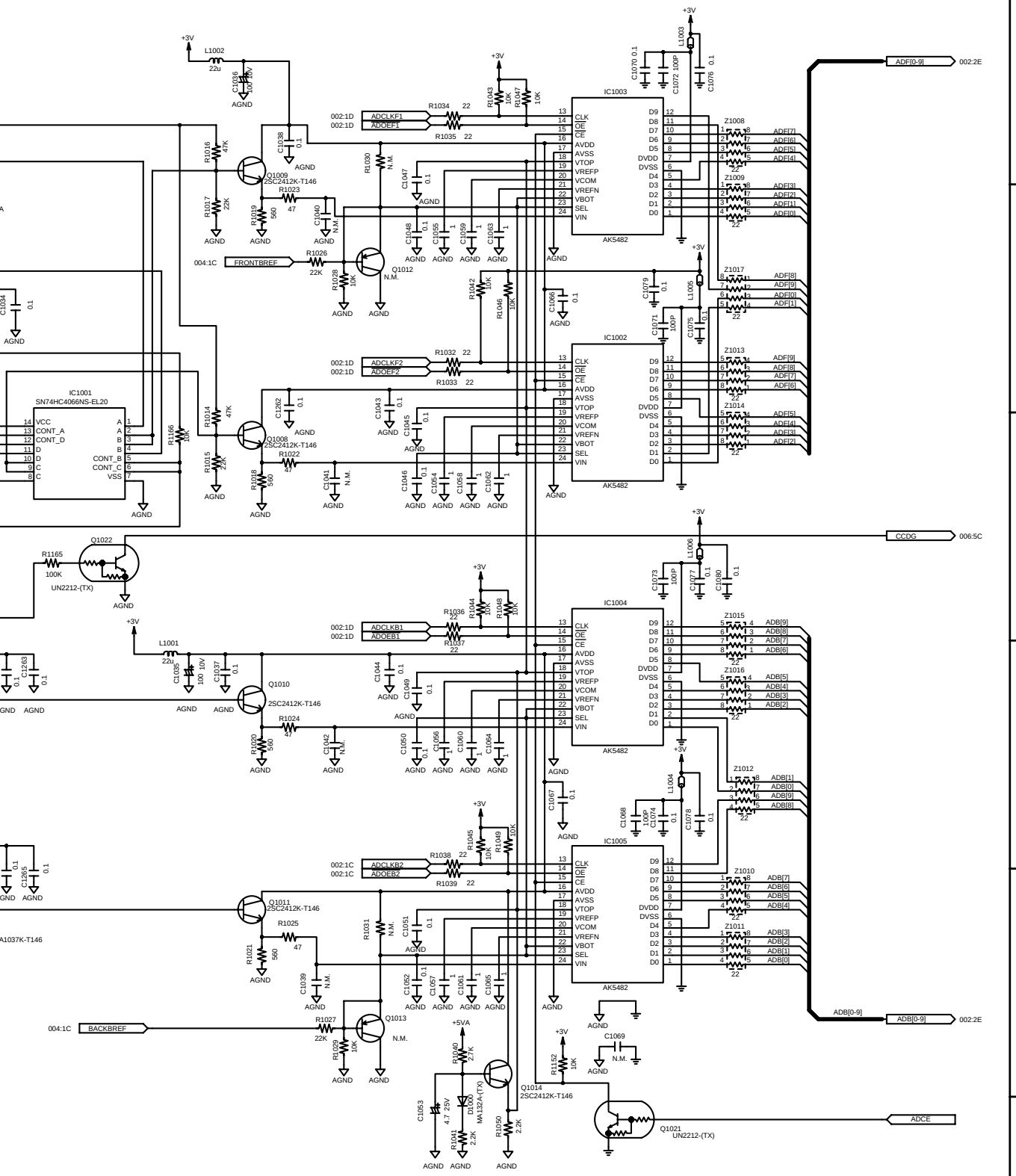

006:5C CCDINE
006:5C CCDINO
+5VA
-5VA
AGND
CN1000
CN1001
CN1002
CN1003
175487-9
1-175487-1
175487-8
1-175487-0
Z1003 N.M.
Z1004 N.M.
Z1006 N.M.
Z1007 N.M.
Q1001 2SA1037K-T146
Q1002 2SA1037K-T146
Q1003 2SA1037K-T146
Q1004 2SA1037K-T146
Q1005 UN2212-(TX)
Q1006 2SA1037K-T146
Q1007 2SA1037K-T146
Q1000 UN2212-(TX)
IC1037 TC7S08FU(TE85L) HD74LV1GT08ACM
IC1001 SN74HC4066NS-EL20
IC1000 HD74HCT245FPV
SIZEF0 004:1A
SIZEF1 004:1A
SIZEB0 004:1B
SIZEB1 004:1B
004:1C BACKB
002:1C CISSP1F
002:1C CISSP1B
002:1C CISSP2F
002:1C CISSP2B
002:1C CISCLK1F
002:1C CISCLK1B
002:1C CISCLK2F
002:1C CISCLK2B



(Main Control Board)

KV-S2065/S6055/S6050

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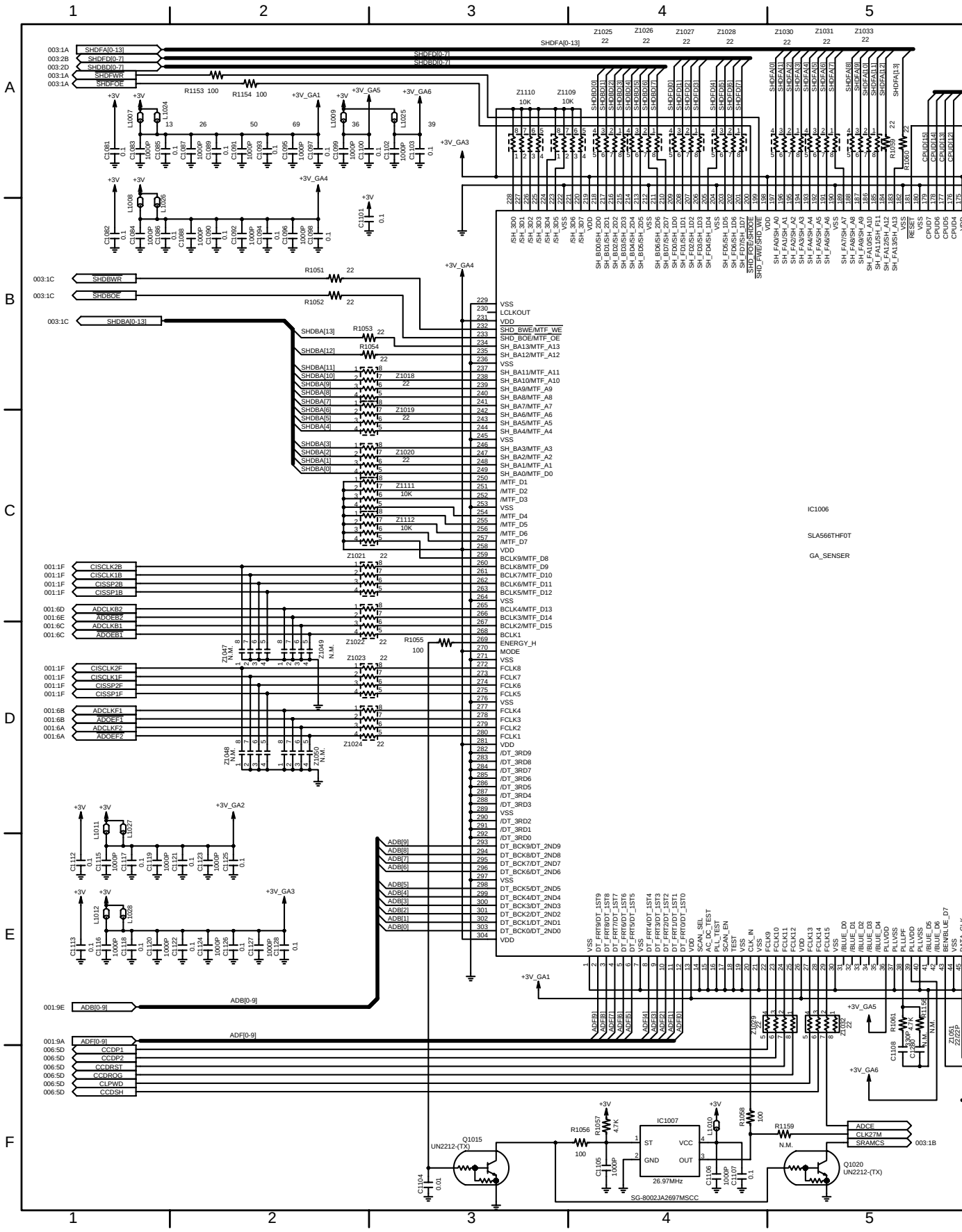
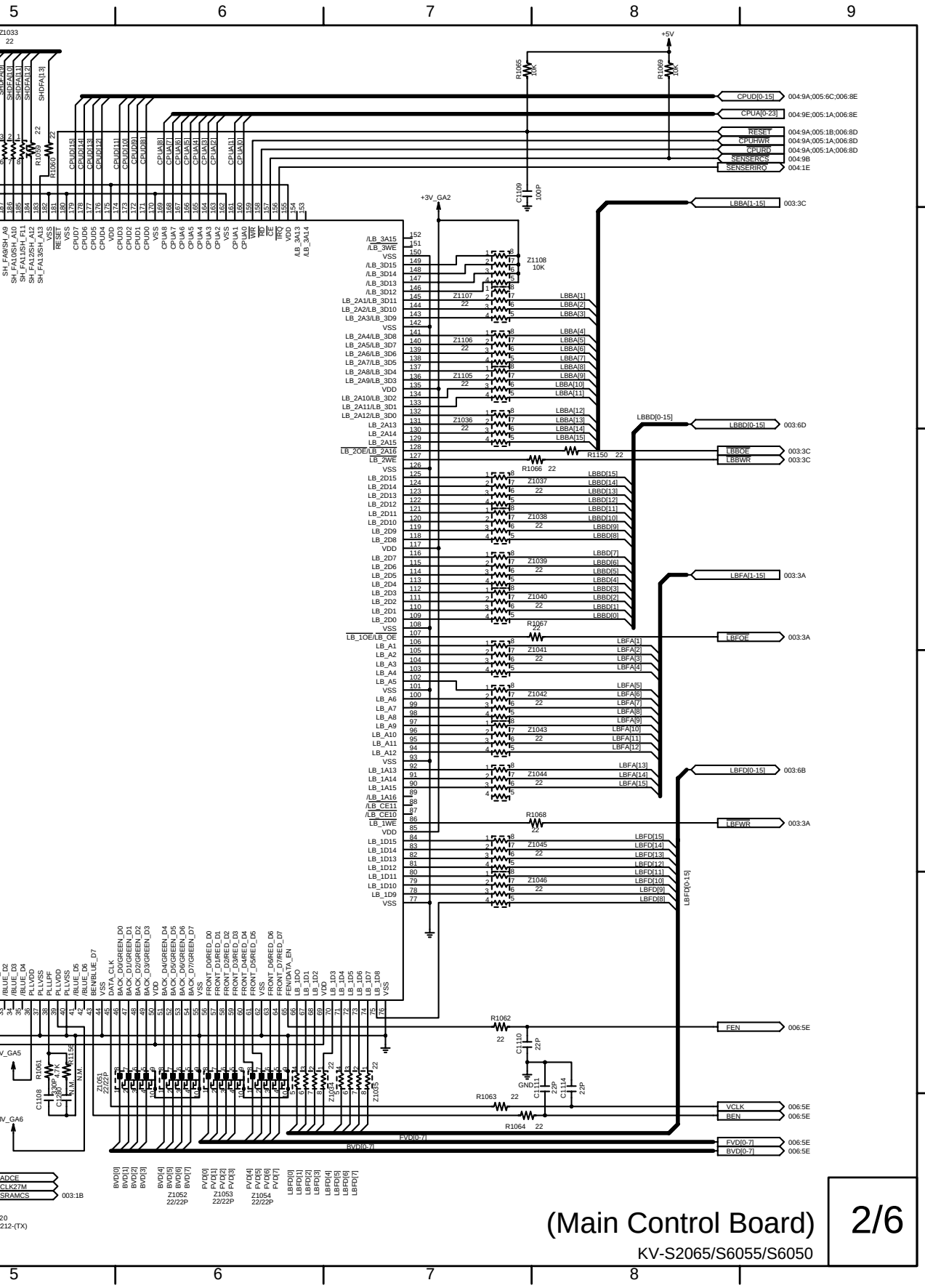

IC1006
SLA566THF0T
GA_SENSER
IC1007
SG-8002JA2697MSCC
26.97MHz
UN2212-(TX)
Q1015
Q1020
SHDFA[0-13]
SHDFD[0-7]
SHDBD[0-7]
SHDFWR
SHDFOE
SHDBWR
SHDBOE
SHDBA[0-13]
ADB[0-9]
ADF[0-9]
CISCLK2B
CISCLK1B
CISSP2B
CISSP1B
ADCLKB2
ADOEB2
ADCLKB1
ADOEB1
CISCLK2F
CISCLK1F
CISSP2F
CISSP1F
ADCLKF1
ADOEF1
ADCLKF2
ADOEF2
CCDP1
CCDP2
CCDRST
CCDROG
CLPWD
CCDSH
ADCE
CLK27M
SRAMCS
+3V
+3V_GA1
+3V_GA2
+3V_GA3
+3V_GA4
+3V_GA5
+3V_GA6


+5V
+3V_GA2
CPUD[0-15]
004:9A;005:6C;006:8E
CPUA[0-23]
004:9E;005:1A;006:8E
RESET
004:9A;005:1B;006:8D
CPUHWR
004:9A;005:1A;006:8D
CPURD
004:9A;005:1A;006:8D
SENSERCS
004:9B
SENSERIRQ
004:1E
LBBA[1-15]
003:3C
LBBD[0-15]
003:6D
LBBOE
003:3C
LBBWR
003:3C
LBFA[1-15]
003:3A
LBFOE
003:3A
LBFD[0-15]
003:6B
LBFWR
003:3A
FEN
006:5E
VCLK
006:5E
BEN
006:5E
FVD[0-7]
006:5E
BVD[0-7]
006:5E
ADCE
CLK27M
SRAMCS
003:1B
(Main Control Board)
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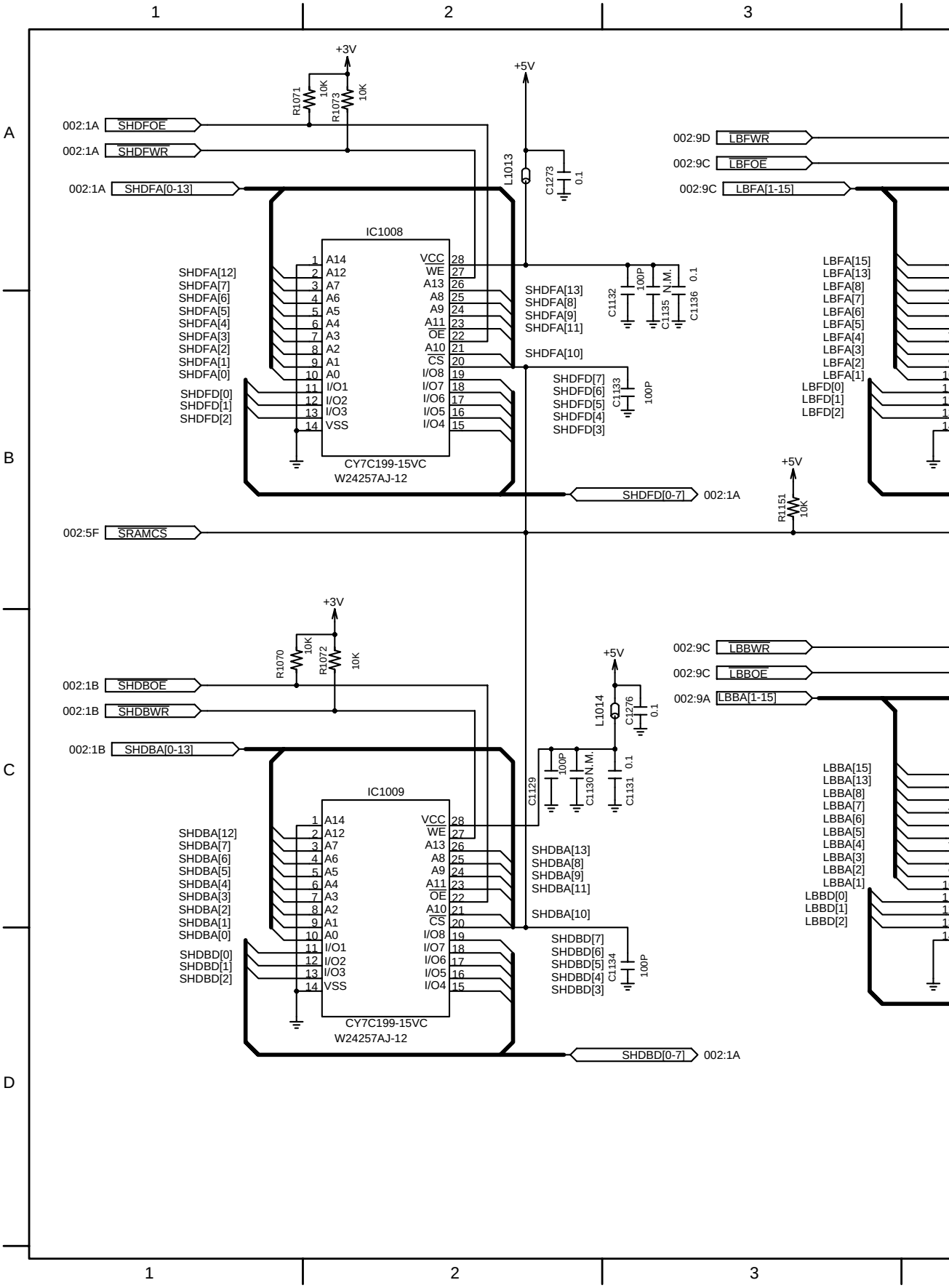
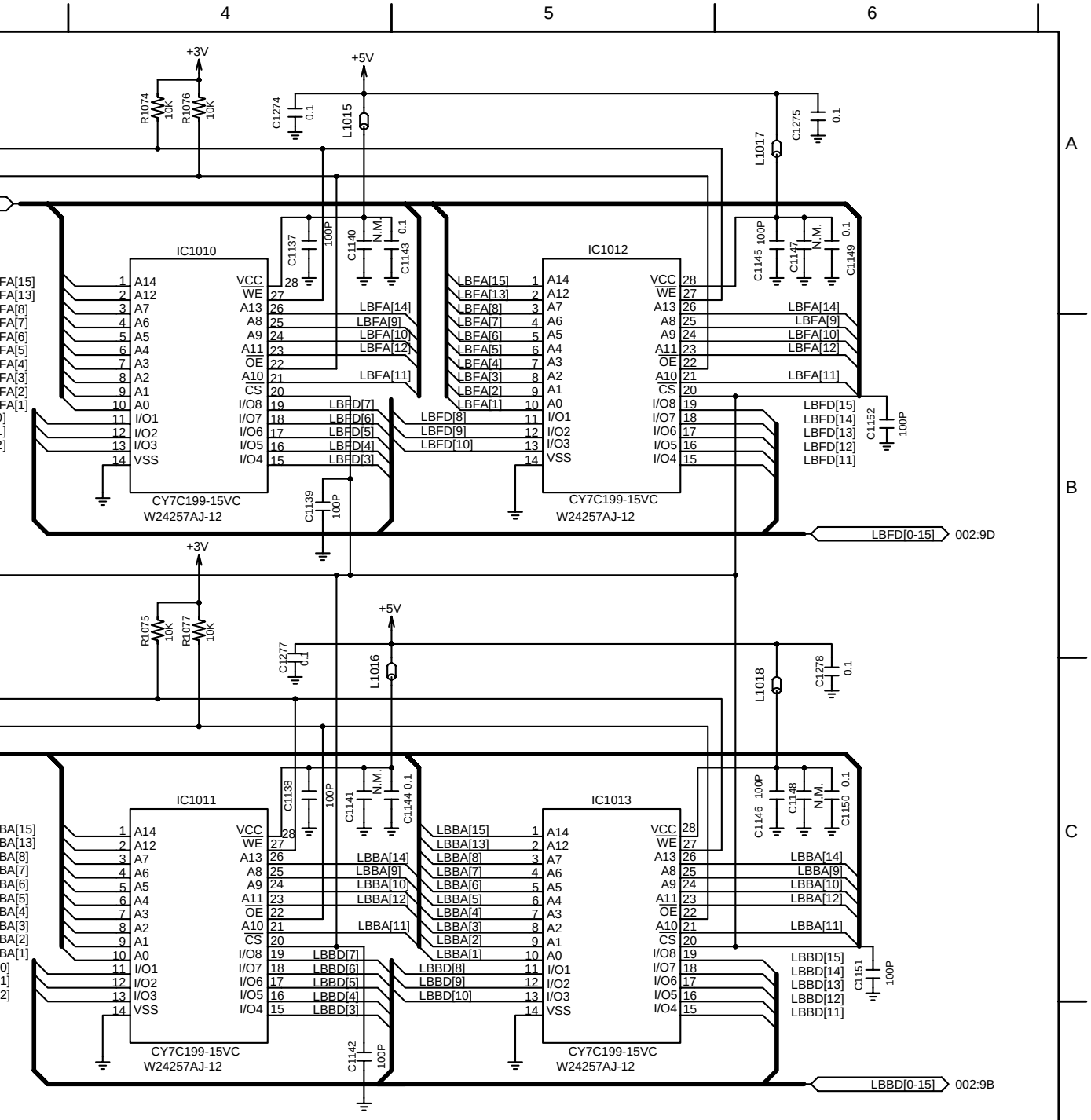

1
2
3
A
B
C
D
+3V
+5V
R1071 10K
R1073 10K
002:1A SHDFOE
002:1A SHDFWR
002:1A SHDFA[0-13]
L1013
C1273 0.1
IC1008
SHDFA[12]
SHDFA[7]
SHDFA[6]
SHDFA[5]
SHDFA[4]
SHDFA[3]
SHDFA[2]
SHDFA[1]
SHDFA[0]
SHDFD[0]
SHDFD[1]
SHDFD[2]
A14 A12 A7 A6 A5 A4 A3 A2 A1 A0 I/O1 I/O2 I/O3 VSS
VCC WE A13 A8 A9 A11 OE A10 CS I/O8 I/O7 I/O6 I/O5 I/O4
SHDFA[13]
SHDFA[8]
SHDFA[9]
SHDFA[11]
SHDFA[10]
SHDFD[7]
SHDFD[6]
SHDFD[5]
SHDFD[4]
SHDFD[3]
C1132 100P
C1135 N.M.
C1136 0.1
C1133 100P
CY7C199-15VC
W24257AJ-12
SHDFD[0-7] 002:1A
002:9D LBFWR
002:9C LBFOE
002:9C LBFA[1-15]
LBFA[15]
LBFA[13]
LBFA[8]
LBFA[7]
LBFA[6]
LBFA[5]
LBFA[4]
LBFA[3]
LBFA[2]
LBFA[1]
LBFD[0]
LBFD[1]
LBFD[2]
R1151 10K
002:5F SRAMCS
R1070 10K
R1072 10K
002:1B SHDBOE
002:1B SHDBWR
002:1B SHDBA[0-13]
L1014
C1276 0.1
IC1009
SHDBA[12]
SHDBA[7]
SHDBA[6]
SHDBA[5]
SHDBA[4]
SHDBA[3]
SHDBA[2]
SHDBA[1]
SHDBA[0]
SHDBD[0]
SHDBD[1]
SHDBD[2]
A14 A12 A7 A6 A5 A4 A3 A2 A1 A0 I/O1 I/O2 I/O3 VSS
VCC WE A13 A8 A9 A11 OE A10 CS I/O8 I/O7 I/O6 I/O5 I/O4
SHDBA[13]
SHDBA[8]
SHDBA[9]
SHDBA[11]
SHDBA[10]
SHDBD[7]
SHDBD[6]
SHDBD[5]
SHDBD[4]
SHDBD[3]
C1129 100P
C1130 N.M.
C1131 0.1
C1134 100P
CY7C199-15VC
W24257AJ-12
SHDBD[0-7] 002:1A
002:9C LBBWR
002:9C LBBOE
002:9A LBBA[1-15]
LBBA[15]
LBBA[13]
LBBA[8]
LBBA[7]
LBBA[6]
LBBA[5]
LBBA[4]
LBBA[3]
LBBA[2]
LBBA[1]
LBBD[0]
LBBD[1]
LBBD[2]



(Main Control Board)

KV-S2065/S6055/S6050

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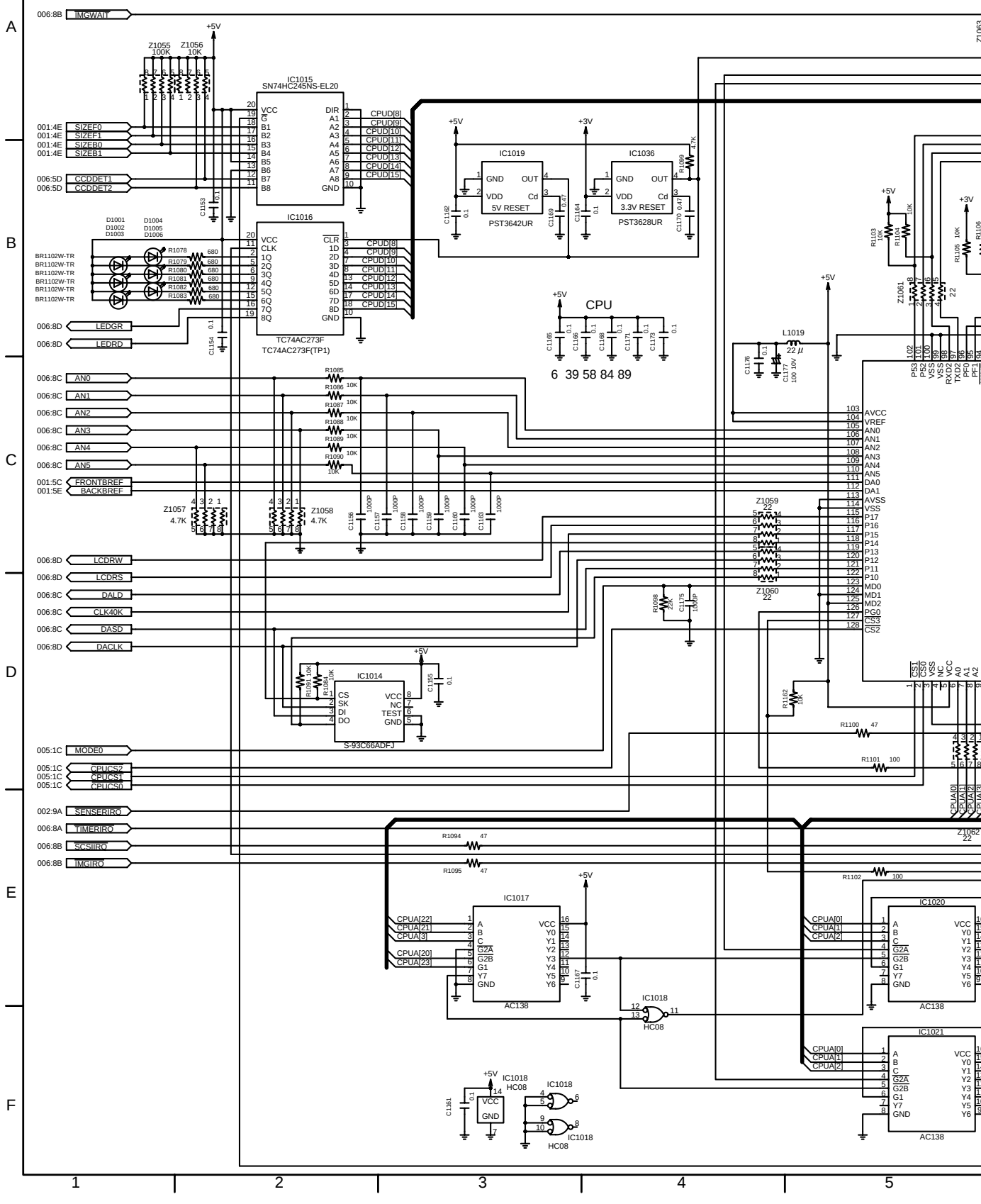
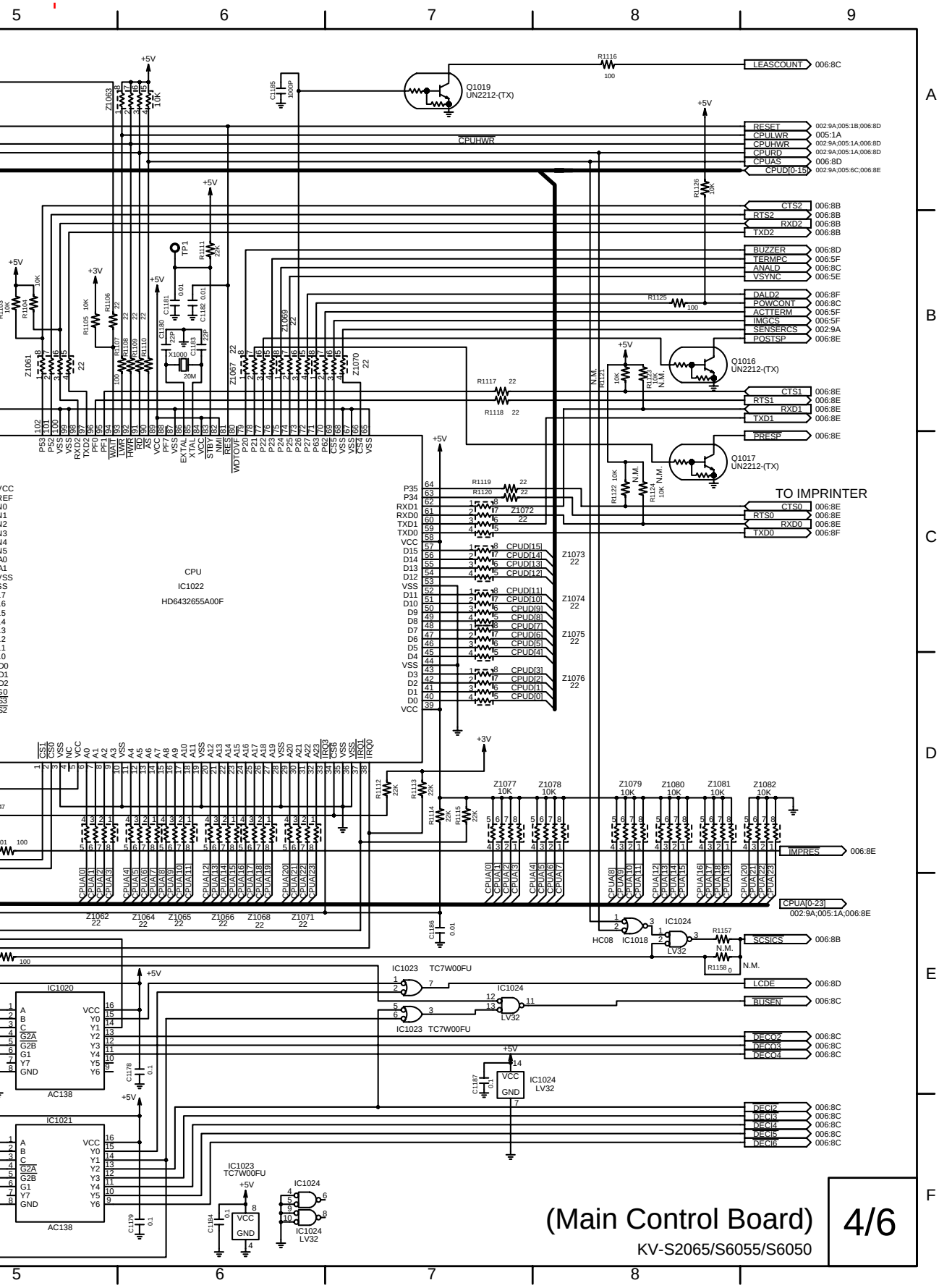
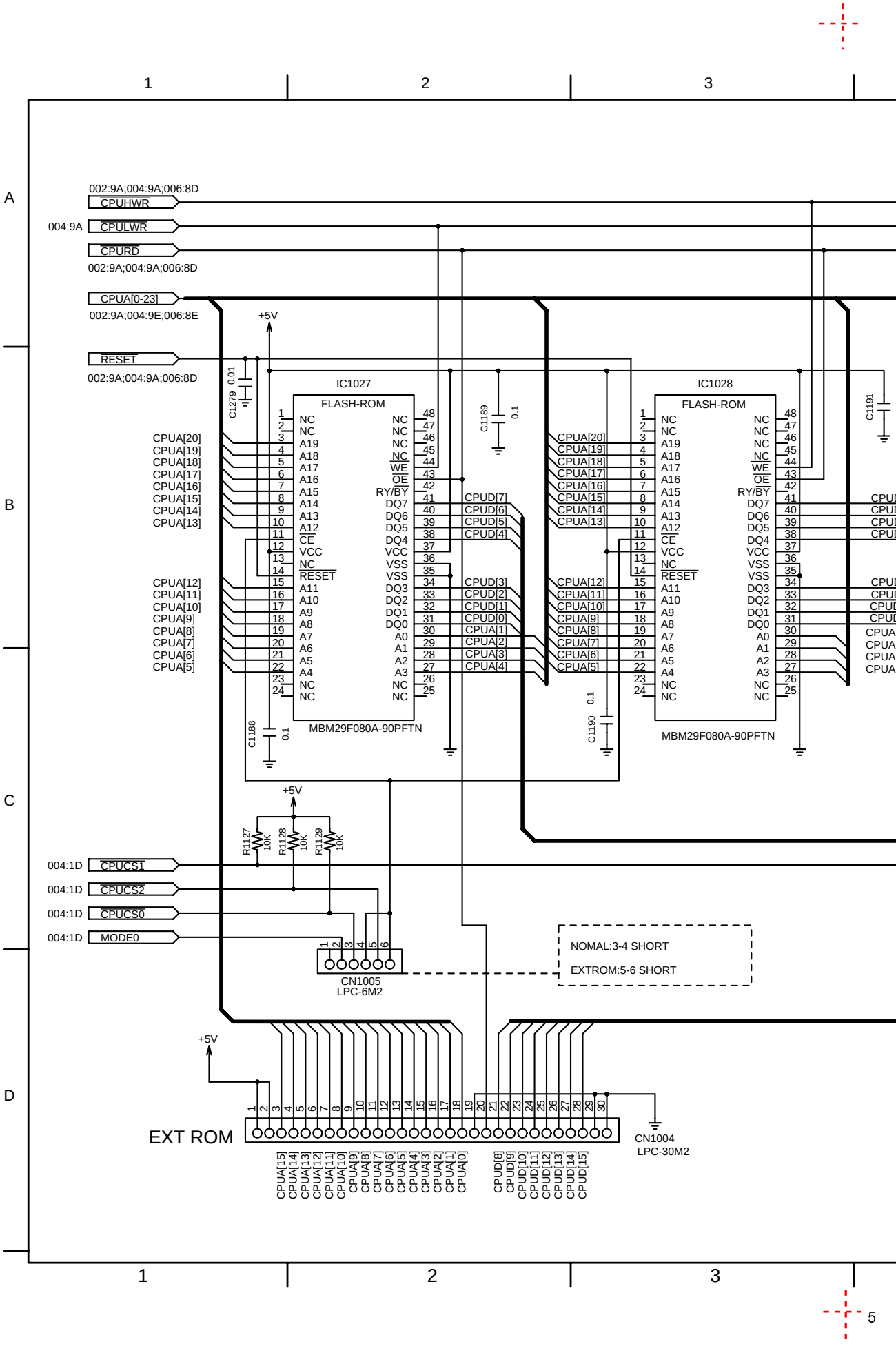
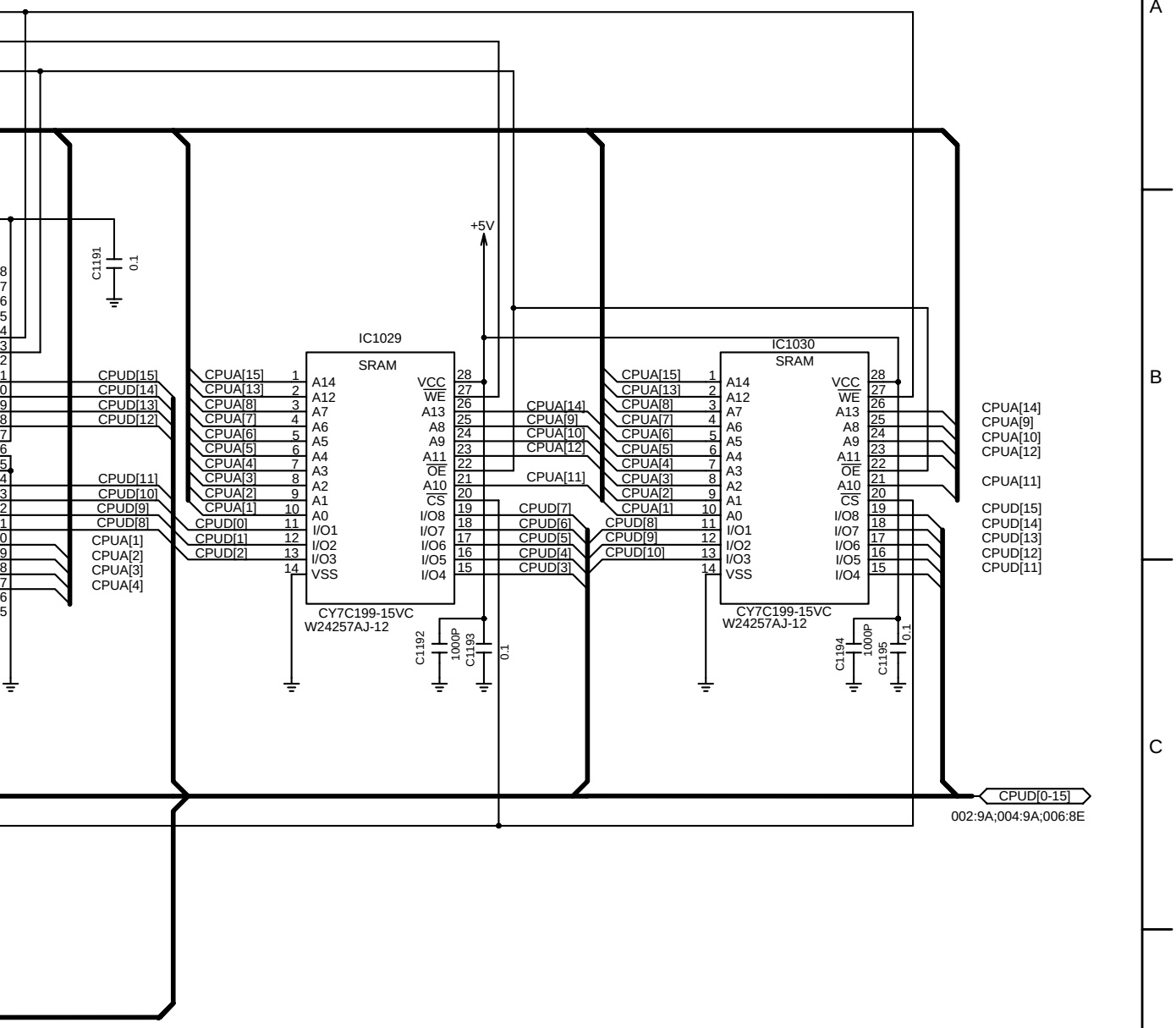

IMGWAIT
SIZEF0
SIZEF1
SIZEB0
SIZEB1
CCDDET1
CCDDET2
LEDGR
LEDRD
AN0
AN1
AN2
AN3
AN4
AN5
FRONTBREF
BACKBREF
LCDRW
LCDRS
DALD
CLK40K
DASD
DACLK
MODE0
CPUCS2
CPUCS1
CPUCS0
SENSERIRQ
TIMERIRQ
SCSIIRQ
IMGIRQ
IC1015
SN74HC245NS-EL20
IC1016
TC74AC273F
TC74AC273F(TP1)
IC1019
PST3642UR
IC1036
PST3628UR
IC1014
S-93C66ADFJ
IC1017
AC138
IC1018
HC08
IC1020
IC1021
CPU
L1019
22 μ
Z1057
4.7K
Z1058
4.7K
Z1059
Z1060
Z1061
Z1062
+5V
+3V


LEASCOUNT 006:8C
RESET 002:9A;005:1B;006:8D
CPUWR 005:1A
CPUHWR 002:9A;005:1A;006:8D
CPURD 002:9A;005:1A;006:8D
CPUAS 006:8D
CPUD[0-15] 002:9A;005:6C;006:8E
CTS2 006:8B
RTS2 006:8B
RXD2 006:8B
TXD2 006:8B
BUZZER 006:8D
TERMPC 006:5F
ANALD 006:8C
VSYNC 006:5E
DALD2 006:8F
POWCONT 006:8C
ACTTERM 006:5F
IMGCS 006:5F
SENSERCS 002:9A
POSTSP 006:8E
CTS1 006:8E
RTS1 006:8E
RXD1 006:8E
TXD1 006:8E
PRESP 006:8E
TO IMPRINTER
CTS0 006:8E
RTS0 006:8E
RXD0 006:8E
TXD0 006:8F
IMPRES 006:8E
CPUA[0-23] 002:9A;005:1A;006:8E
SCSICS 006:8B
LCDE 006:8D
BUSEN 006:8C
DECO2 006:8C
DECO3 006:8C
DECO4 006:8C
DECI2 006:8C
DECI3 006:8C
DECI4 006:8C
DECI5 006:8C
DECI6 006:8C
CPU
IC1022
HD6432655A00F
Q1019 UN2212-(TX)
Q1016 UN2212-(TX)
Q1017 UN2212-(TX)
IC1020 AC138
IC1021 AC138
IC1023 TC7W00FU
IC1024 LV32
HC08 IC1018
(Main Control Board)
KV-S2065/S6055/S6050
4/6


002:9A;004:9A;006:8D
CPUHWR
004:9A
CPULWR
CPURD
002:9A;004:9A;006:8D
CPUA[0-23]
002:9A;004:9E;006:8E
+5V
RESET
002:9A;004:9A;006:8D
C1279 0.01
IC1027
FLASH-ROM
MBM29F080A-90PFTN
IC1028
FLASH-ROM
MBM29F080A-90PFTN
C1189 0.1
C1188 0.1
C1190 0.1
C1191
CPUA[20]
CPUA[19]
CPUA[18]
CPUA[17]
CPUA[16]
CPUA[15]
CPUA[14]
CPUA[13]
CPUA[12]
CPUA[11]
CPUA[10]
CPUA[9]
CPUA[8]
CPUA[7]
CPUA[6]
CPUA[5]
CPUD[7]
CPUD[6]
CPUD[5]
CPUD[4]
CPUD[3]
CPUD[2]
CPUD[1]
CPUD[0]
CPUA[1]
CPUA[2]
CPUA[3]
CPUA[4]
+5V
R1127 10K
R1128 10K
R1129 10K
004:1D CPUCS1
004:1D CPUCS2
004:1D CPUCS0
004:1D MODE0
CN1005
LPC-6M2
NOMAL:3-4 SHORT
EXTROM:5-6 SHORT
+5V
EXT ROM
CN1004
LPC-30M2
CPUA[15]
CPUA[14]
CPUA[13]
CPUA[12]
CPUA[11]
CPUA[10]
CPUA[9]
CPUA[8]
CPUA[7]
CPUA[6]
CPUA[5]
CPUA[4]
CPUA[3]
CPUA[2]
CPUA[1]
CPUA[0]
CPUD[8]
CPUD[9]
CPUD[10]
CPUD[11]
CPUD[12]
CPUD[13]
CPUD[14]
CPUD[15]



(Main Control Board)

KV-S2065/S6055/S6050

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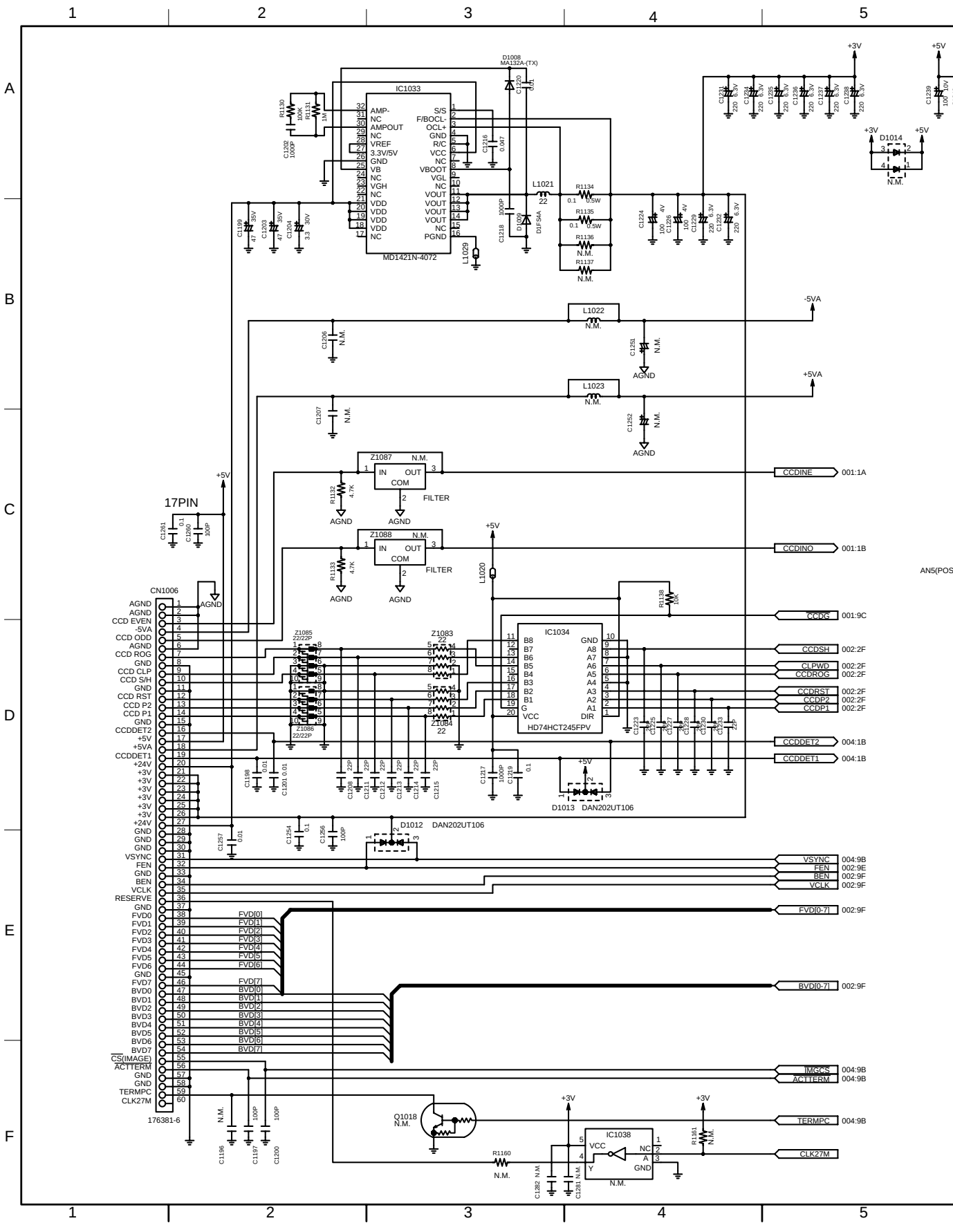
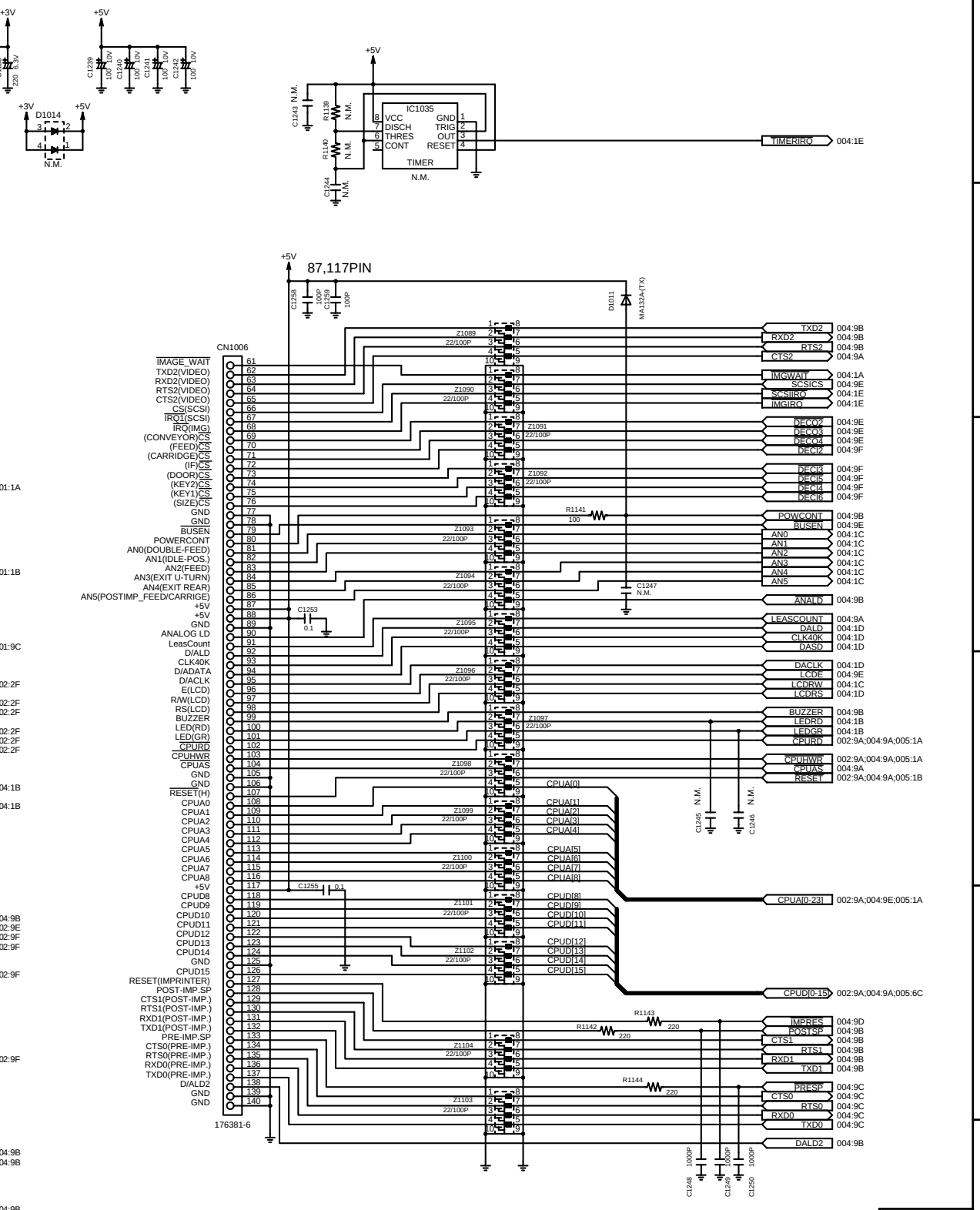

IC1033
MD1421N-4072
D1008
MA132A-(TX)
L1021
22
L1022
N.M.
L1023
N.M.
-5VA
+5VA
AGND
Z1087
N.M.
IN
OUT
COM
FILTER
Z1088
N.M.
IN
OUT
COM
FILTER
17PIN
CN1006
176381-6
IC1034
HD74HCT245FPV
D1013 DAN202UT106
D1012 DAN202UT106
D1014
N.M.
IC1038
Q1018
N.M.
CCDINE 001:1A
CCDINO 001:1B
CCDG 001:9C
CCDSH 002:2F
CLPWD 002:2F
CCDROG 002:2F
CCDRST 002:2F
CCDP2 002:2F
CCDP1 002:2F
CCDDET2 004:1B
CCDDET1 004:1B
VSYNC 004:9B
FEN 002:9E
BEN 002:9F
VCLK 002:9F
FVD[0-7] 002:9F
BVD[0-7] 002:9F
IMGCS 004:9B
ACTTERM 004:9B
TERMPC 004:9B
CLK27M
AN5(POS



(Main Control Board)

KV-S2065/S6055/S6050

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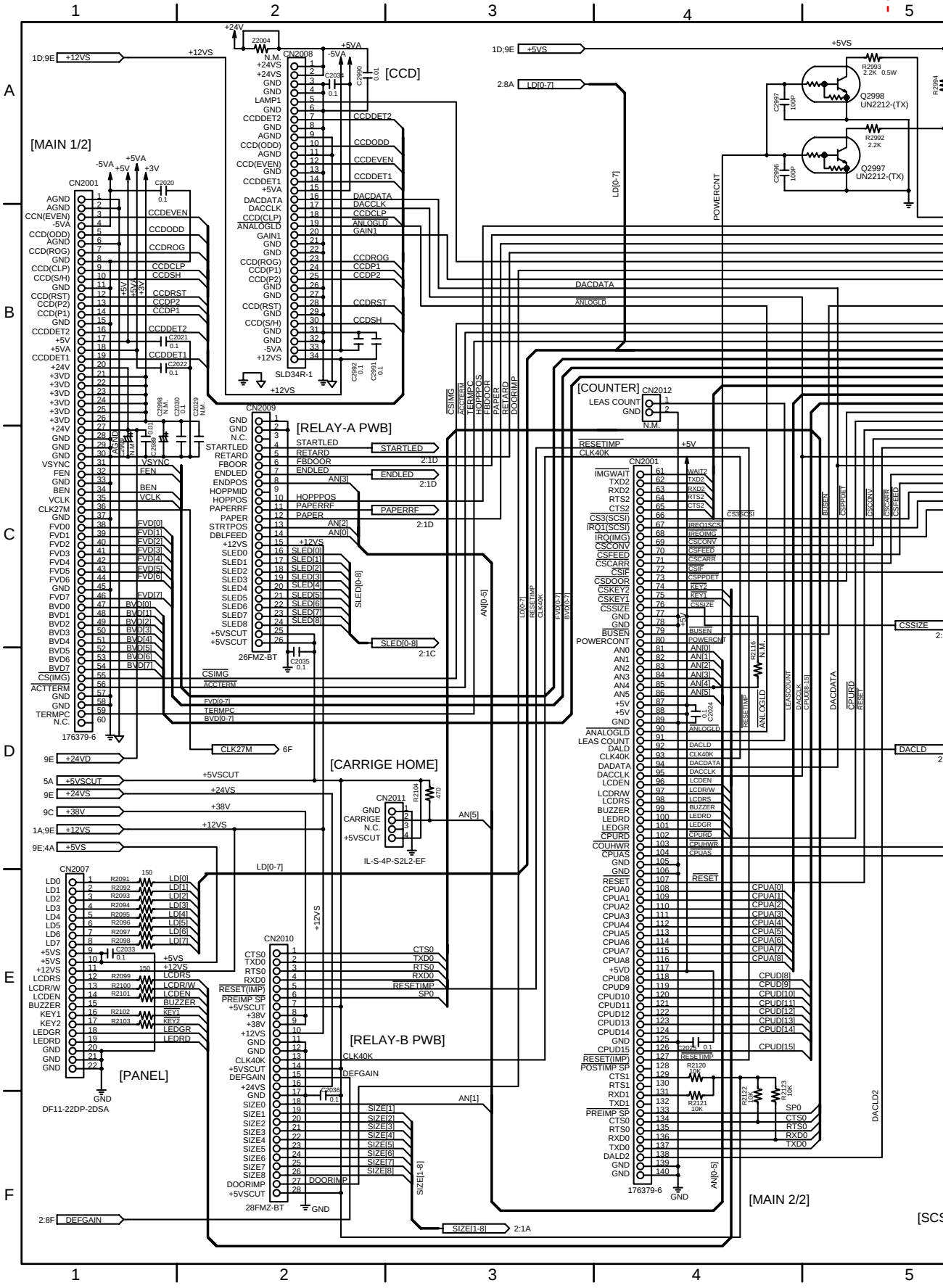
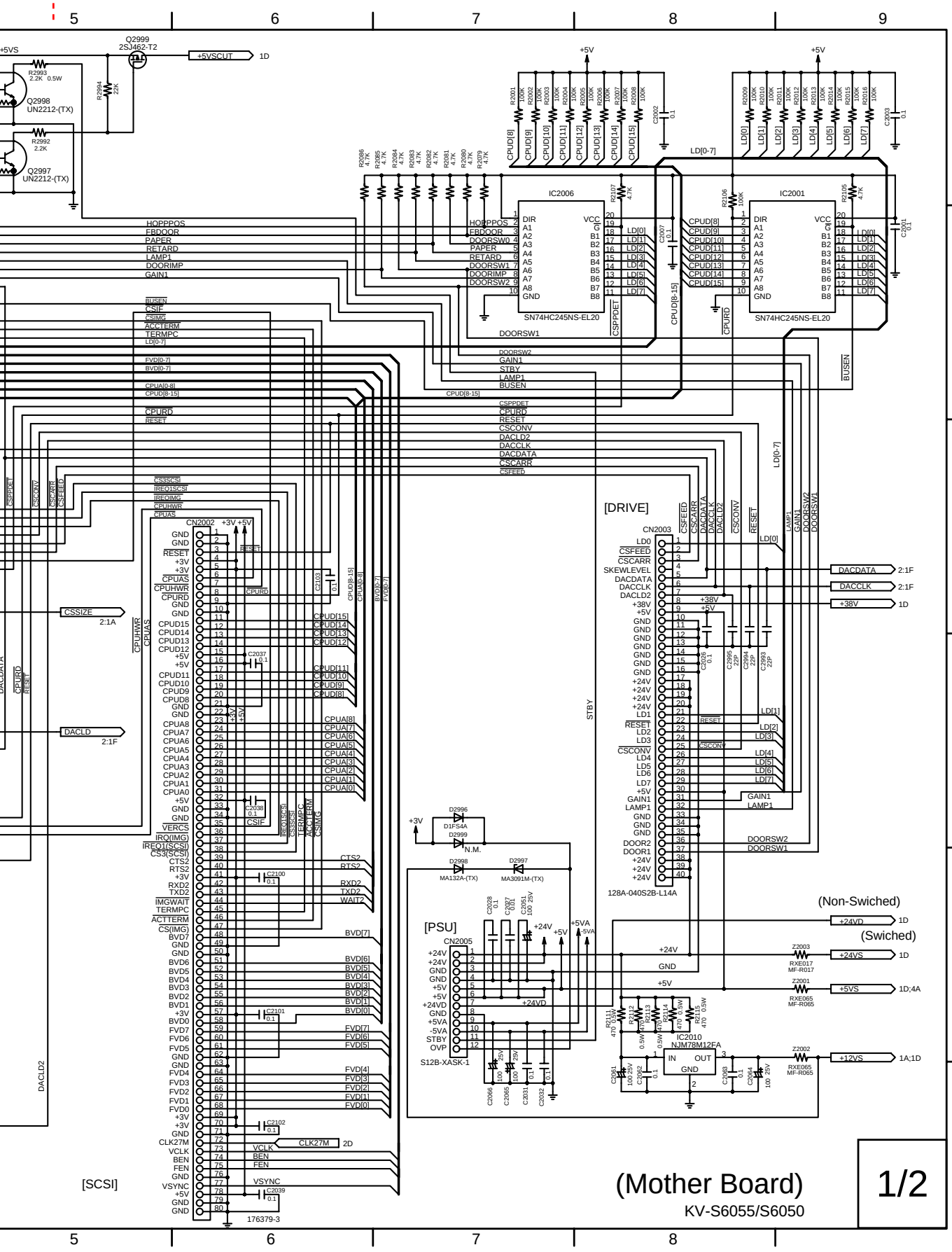
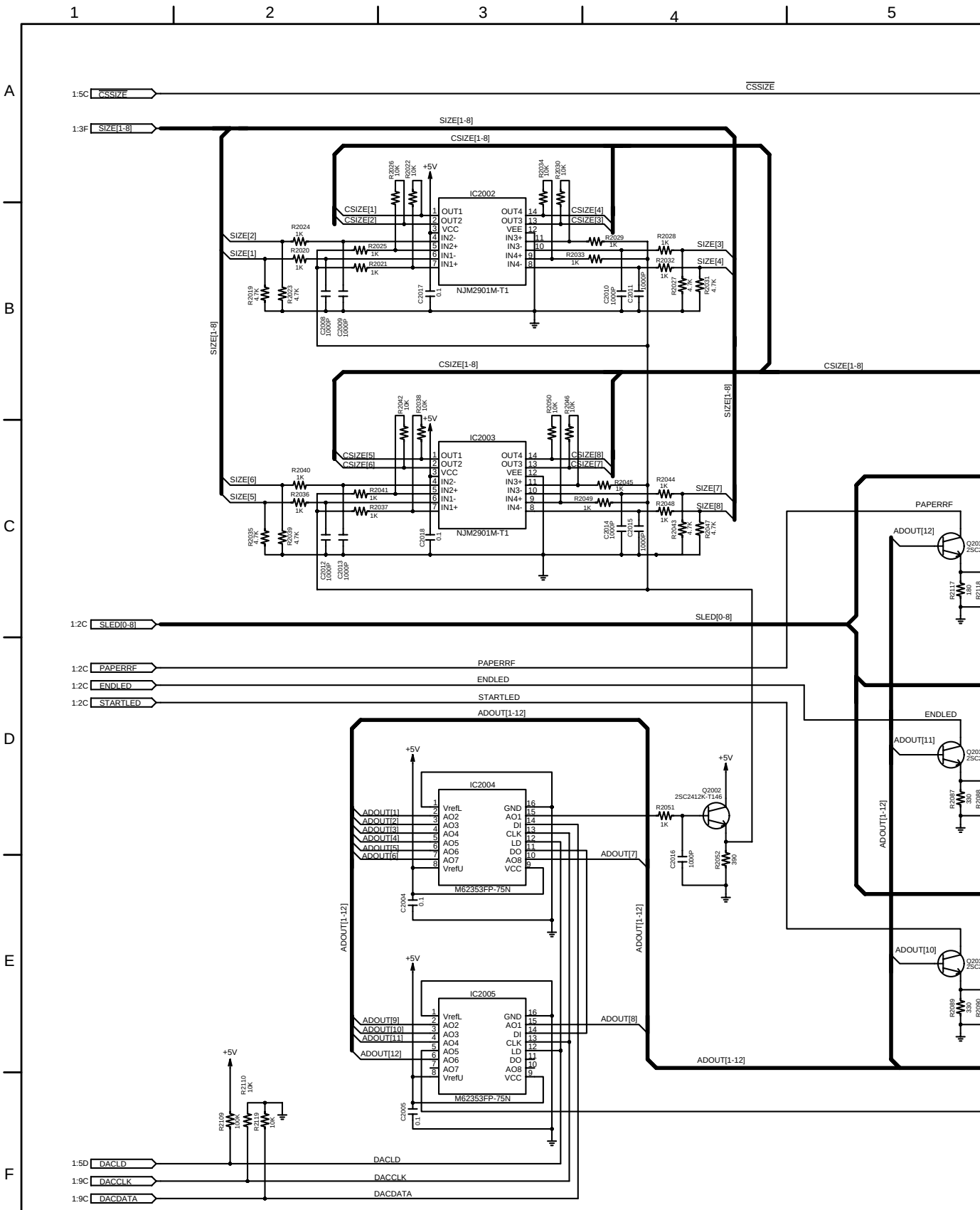
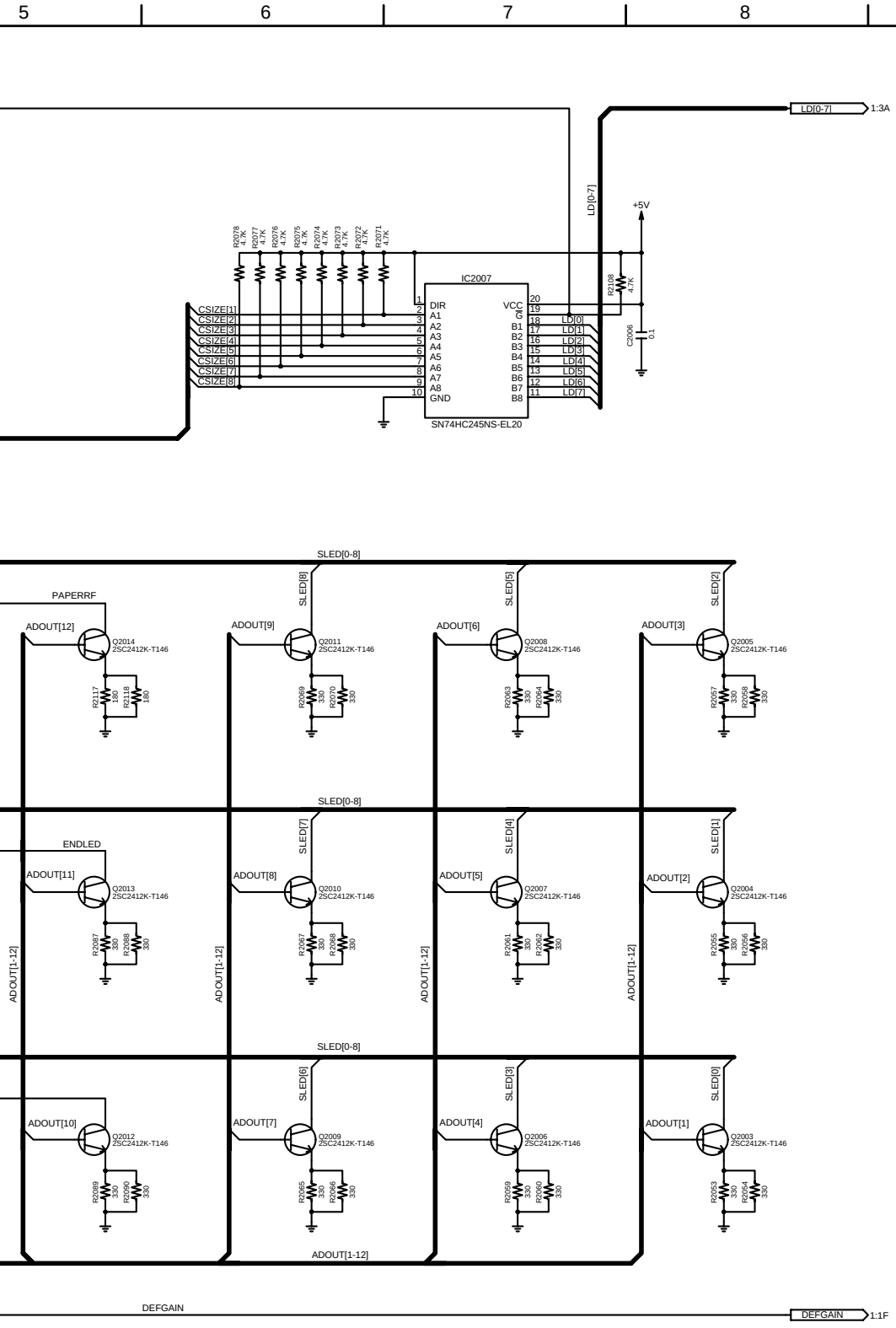

[MAIN 1/2]
[CCD]
[RELAY-A PWB]
[COUNTER]
[CARRIGE HOME]
[RELAY-B PWB]
[PANEL]
[MAIN 2/2]
CN2001
CN2007
CN2008
CN2009
CN2010
CN2011
CN2012
176379-6
DF11-22DP-2DSA
26FMZ-BT
28FMZ-BT
IL-S-4P-S2L2-EF
SLD34R-1
Q2998 UN2212-(TX)
Q2997 UN2212-(TX)
+12VS
+5VS
+5VA
-5VA
+24V
+38V
+3V
+5V
LD[0-7]
SLED[0-8]
AN[0-5]
AN[1]
AN[5]
SIZE[1-8]
DACDATA
DACLD
DACLD2
CPURD
RESET
POWERCNT
CSSIZE
CLK27M
6F
2:1A
2:1C
2:1D
2:8A
2:8F


[SCSI]
[PSU]
[DRIVE]
(Mother Board)
KV-S6055/S6050
1/2
(Non-Swiched)
(Swiched)
IC2006
IC2001
SN74HC245NS-EL20
CN2002
CN2003
CN2005
IC2010
NJM78M12FA
S12B-XASK-1
128A-040S2B-L14A
176379-3


1:5C CSSIZE
CSSIZE
1:3F SIZE[1-8]
SIZE[1-8]
CSIZE[1-8]
IC2002
NJM2901M-T1
IC2003
NJM2901M-T1
SIZE[2]
SIZE[1]
SIZE[3]
SIZE[4]
SIZE[6]
SIZE[5]
SIZE[7]
SIZE[8]
CSIZE[1]
CSIZE[2]
CSIZE[4]
CSIZE[3]
CSIZE[5]
CSIZE[6]
CSIZE[8]
CSIZE[7]
+5V
1:2C SLED[0-8]
SLED[0-8]
1:2C PAPERRF
PAPERRF
1:2C ENDLED
ENDLED
1:2C STARTLED
STARTLED
ADOUT[1-12]
IC2004
M62353FP-75N
IC2005
M62353FP-75N
ADOUT[1]
ADOUT[2]
ADOUT[3]
ADOUT[4]
ADOUT[5]
ADOUT[6]
ADOUT[7]
ADOUT[8]
ADOUT[9]
ADOUT[10]
ADOUT[11]
ADOUT[12]
Q2002
2SC2412K-T146
1:5D DACLD
DACLD
1:9C DACCLK
DACCLK
1:9C DACDATA
DACDATA



(Mother Board)

KV-S6055/S6050

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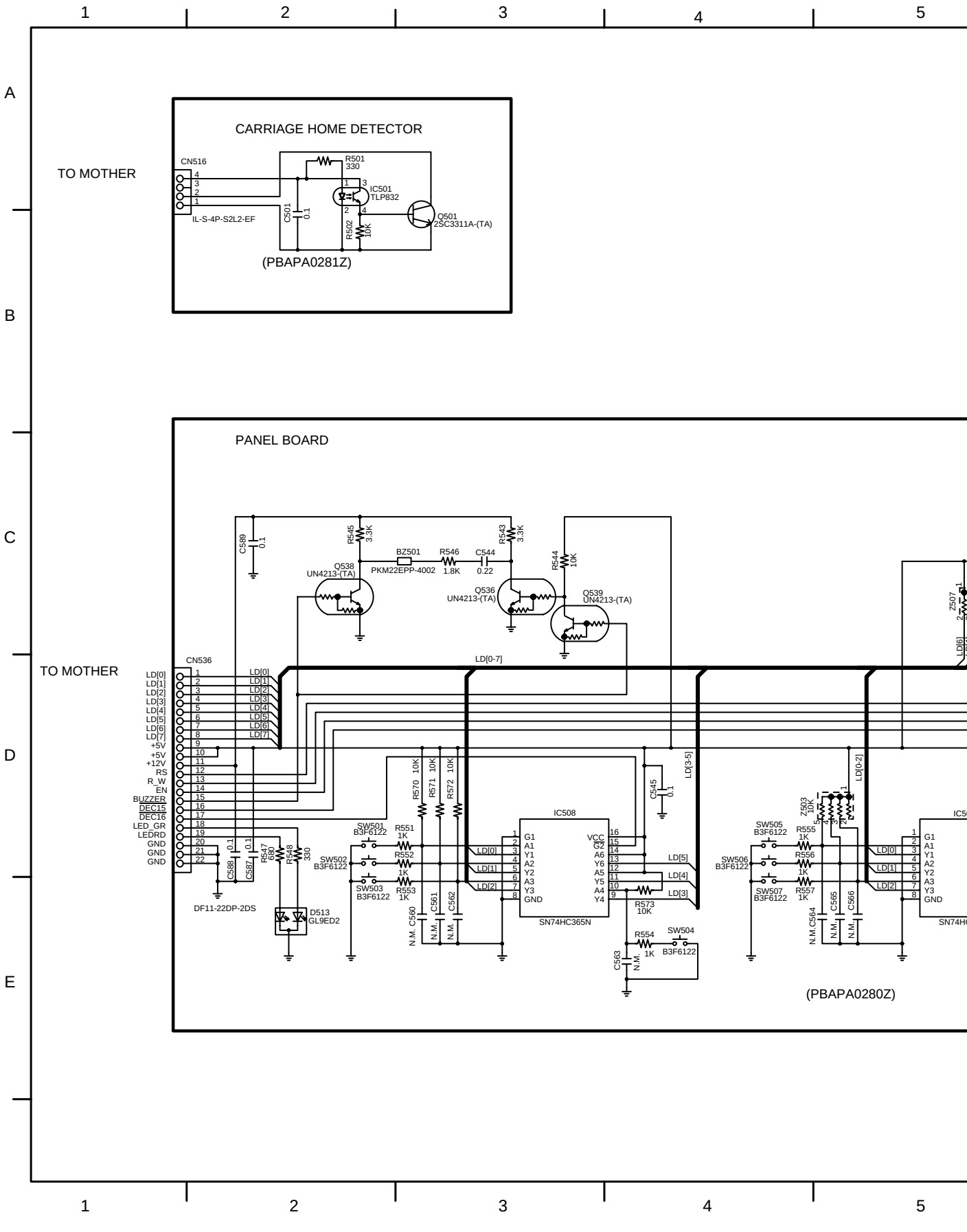
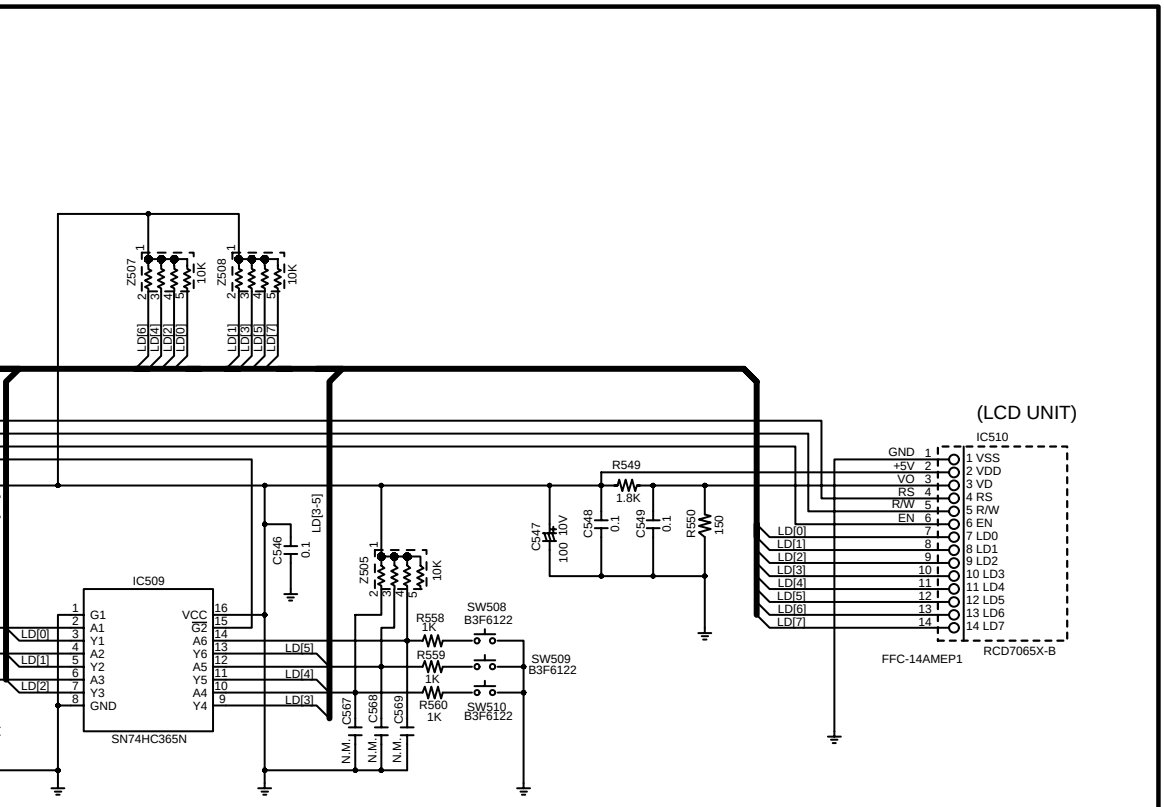

CARRIAGE HOME DETECTOR
TO MOTHER
CN516
IL-S-4P-S2L2-EF
R501 330
IC501 TLP832
Q501 2SC3311A-(TA)
C501 0.1
R502 10K
(PBAPA0281Z)
PANEL BOARD
TO MOTHER
CN536
DF11-22DP-2DS
LD[0-7]
Q538 UN4213-(TA)
Q536 UN4213-(TA)
Q539 UN4213-(TA)
BZ501 PKM22EPP-4002
R545 3.3K
R543 3.3K
R544 10K
R546 1.8K
C544 0.22
C589 0.1
SW501 B3F6122
SW502 B3F6122
SW503 B3F6122
SW504 B3F6122
SW505 B3F6122
SW506 B3F6122
SW507 B3F6122
IC508
SN74HC365N
D513 GL9ED2
(PBAPA0280Z)



280Z)

(Panel & Carriage Home Detector Boards)

KV-S6055/S6050

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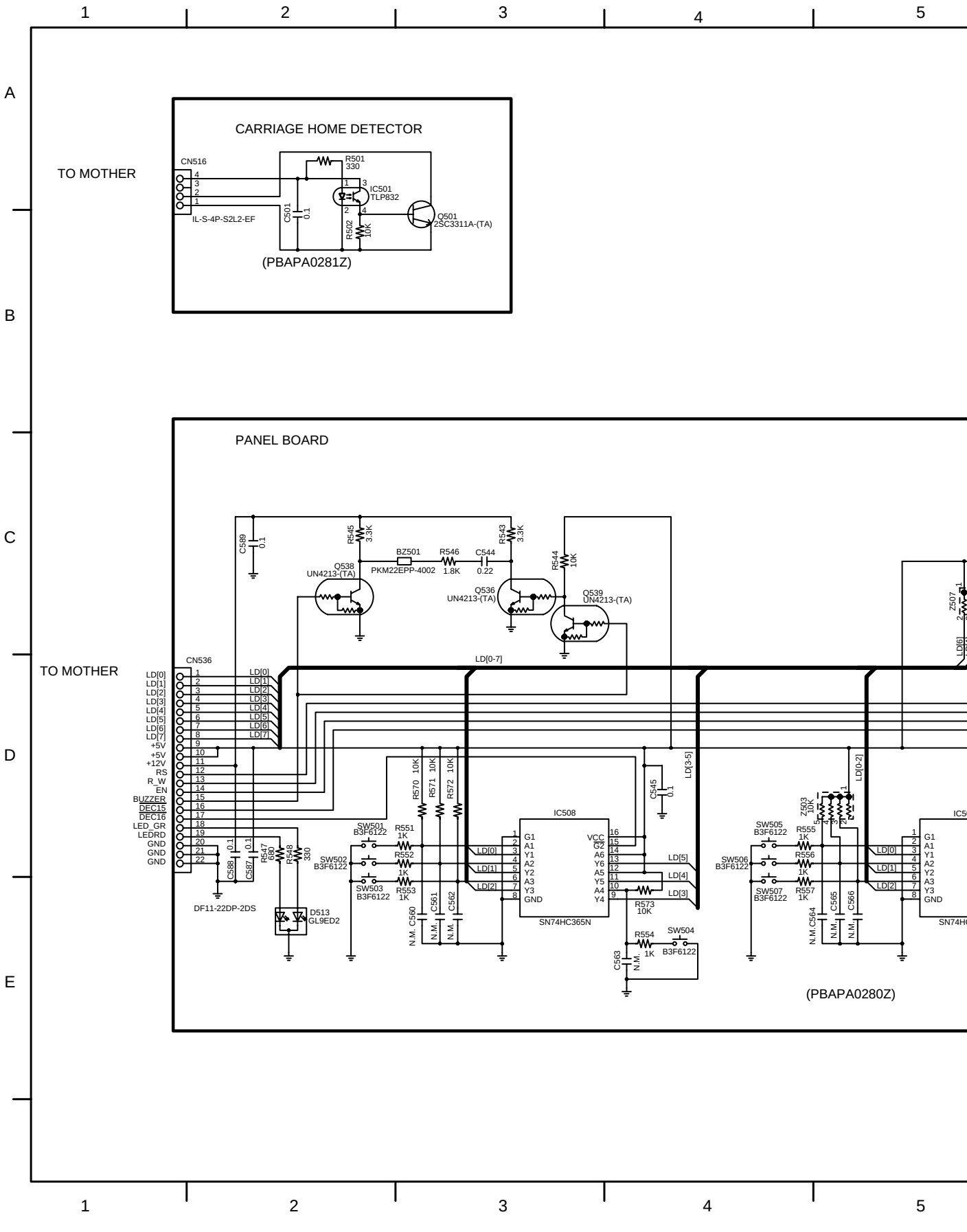
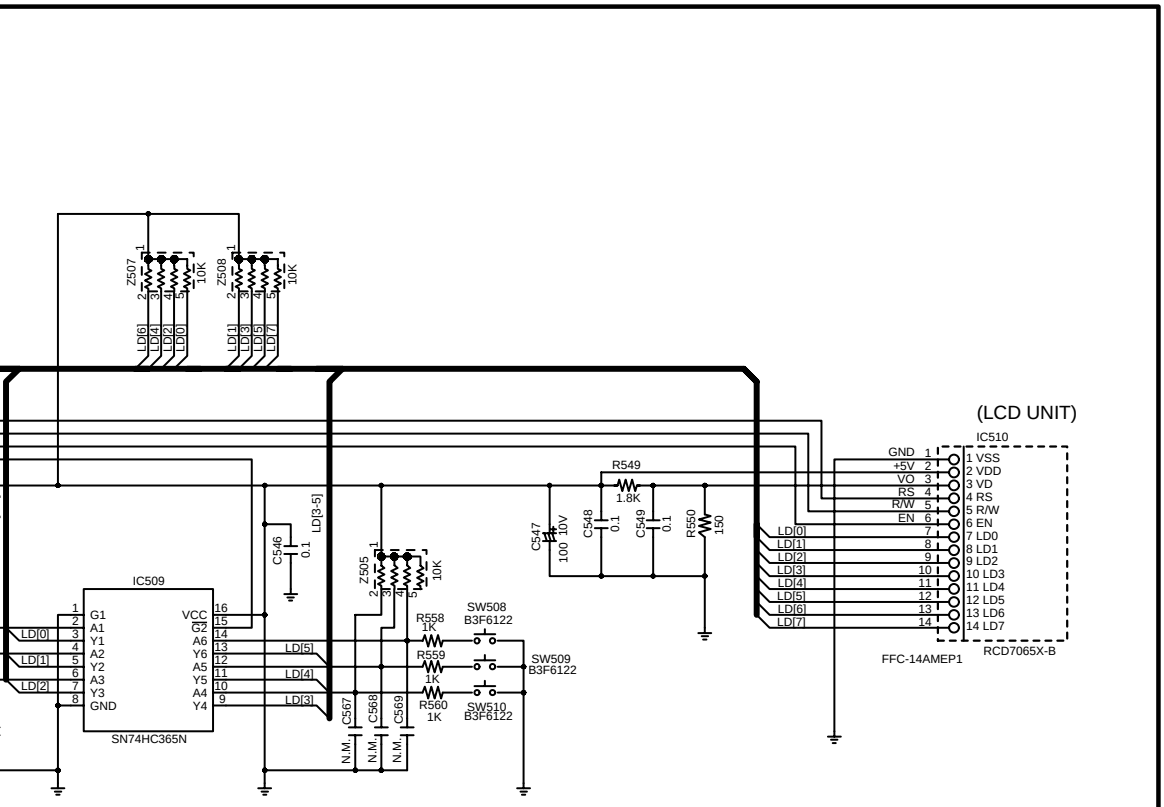

CARRIAGE HOME DETECTOR
TO MOTHER
CN516
IL-S-4P-S2L2-EF
R501 330
IC501 TLP832
Q501 2SC3311A-(TA)
C501 0.1
R502 10K
(PBAPA0281Z)
PANEL BOARD
TO MOTHER
CN536
DF11-22DP-2DS
LD[0-7]
Q538 UN4213-(TA)
Q536 UN4213-(TA)
Q539 UN4213-(TA)
BZ501 PKM22EPP-4002
R545 3.3K
R543 3.3K
R544 10K
R546 1.8K
C544 0.22
C589 0.1
SW501 B3F6122
SW502 B3F6122
SW503 B3F6122
SW504 B3F6122
SW505 B3F6122
SW506 B3F6122
SW507 B3F6122
IC508
SN74HC365N
D513 GL9ED2
(PBAPA0280Z)



280Z)

(Panel & Carriage Home Detector Boards)

KV-S6055/S6050

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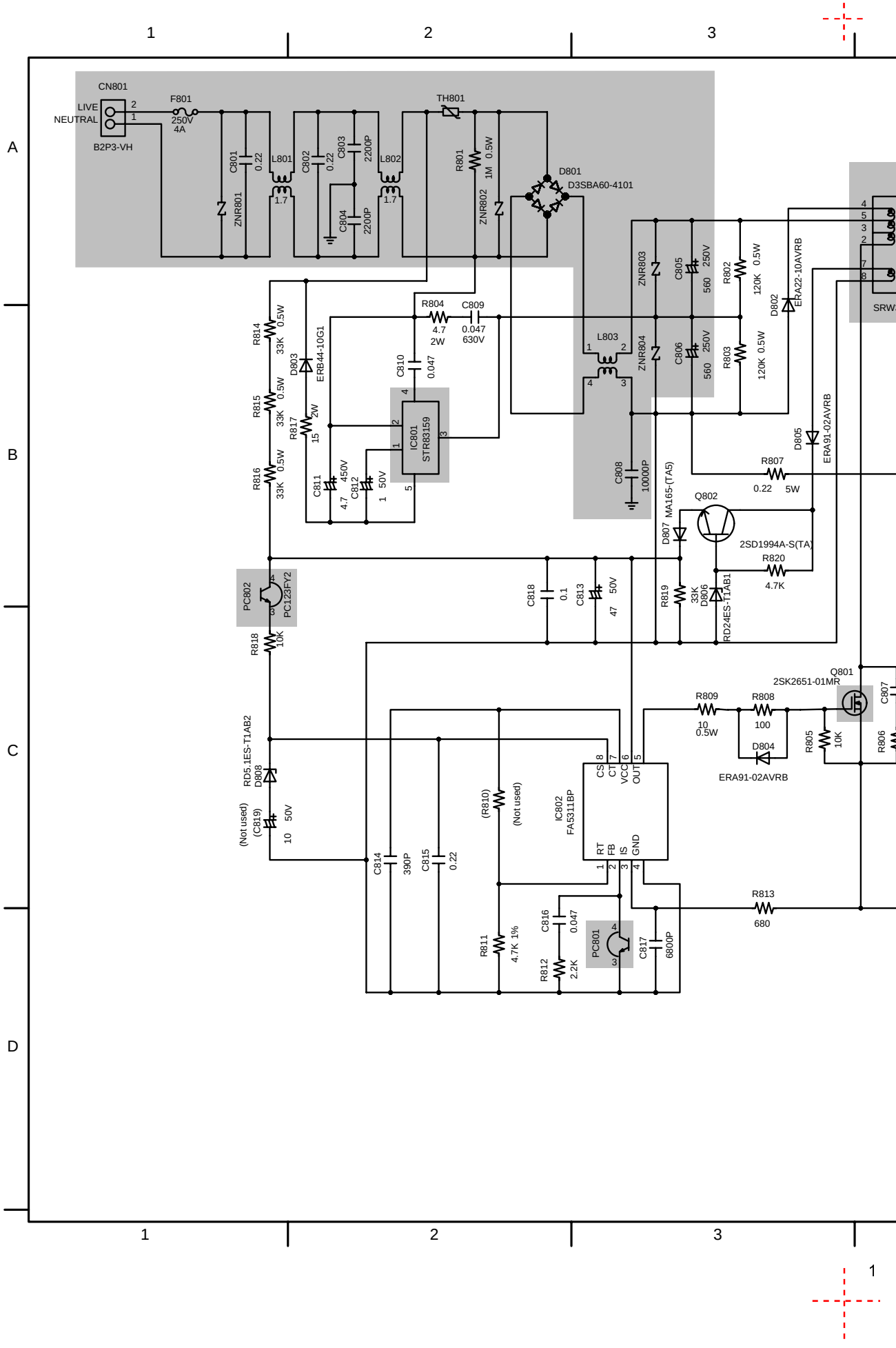
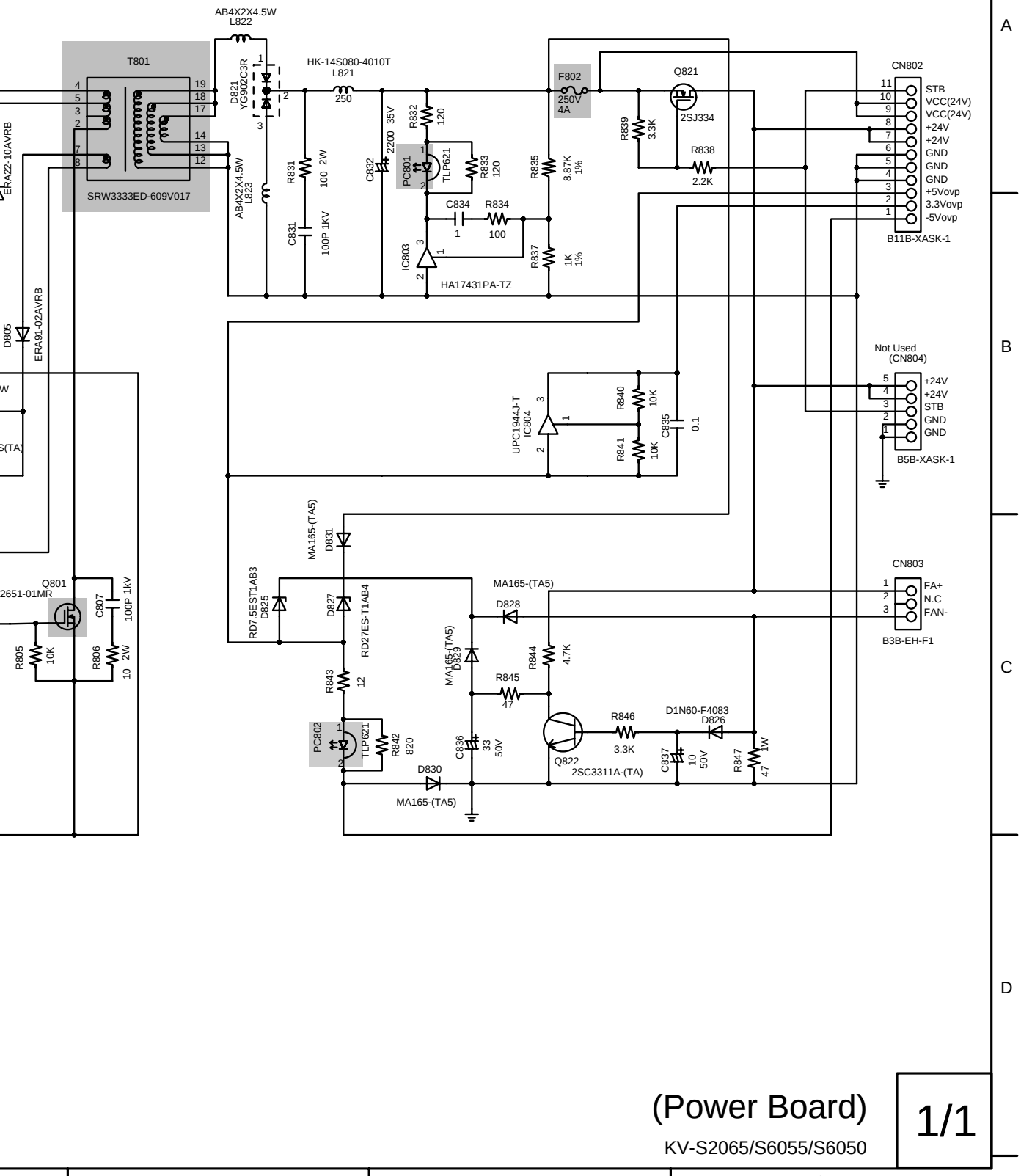

CN801
LIVE
NEUTRAL
B2P3-VH
F801
250V
4A
TH801
D801
D3SBA60-4101
C801 0.22
C802 0.22
C803 2200P
C804 2200P
L801 1.7
L802 1.7
ZNR801
ZNR802
R801 1M 0.5W
ZNR803
ZNR804
L803
C805 560 250V
C806 560 250V
R802 120K 0.5W
R803 120K 0.5W
D802 ERA22-10AVRB
R804 4.7 2W
C809 0.047 630V
R814 33K 0.5W
R815 33K 0.5W
R816 33K 0.5W
D803 ERB44-10G1
R817 15 2W
C810 0.047
IC801 STR83159
C811 4.7 450V
C812 1 50V
C808 10000P
D805 ERA91-02AVRB
R807 0.22 5W
Q802
D807 MA165-(TA5)
2SD1994A-S(TA)
R820 4.7K
D806 RD24ES-T1AB1
R819 33K
C818 0.1
C813 47 50V
PC802 PC123FY2
R818 10K
Q801
2SK2651-01MR
R809 10 0.5W
R808 100
D804 ERA91-02AVRB
R805 10K
C807
R806
RD5.1ES-T1AB2
D808
(Not used)
(C819) 10 50V
(R810)
(Not used)
IC802
FA5311BP
CS CT VCC OUT
RT FB IS GND
C814 390P
C815 0.22
R813 680
R811 4.7K 1%
C816 0.047
R812 2.2K
PC801
C817 6800P
SRW
1
2
3
A
B
C
D



(Power Board)

KV-S2065/S6055/S6050

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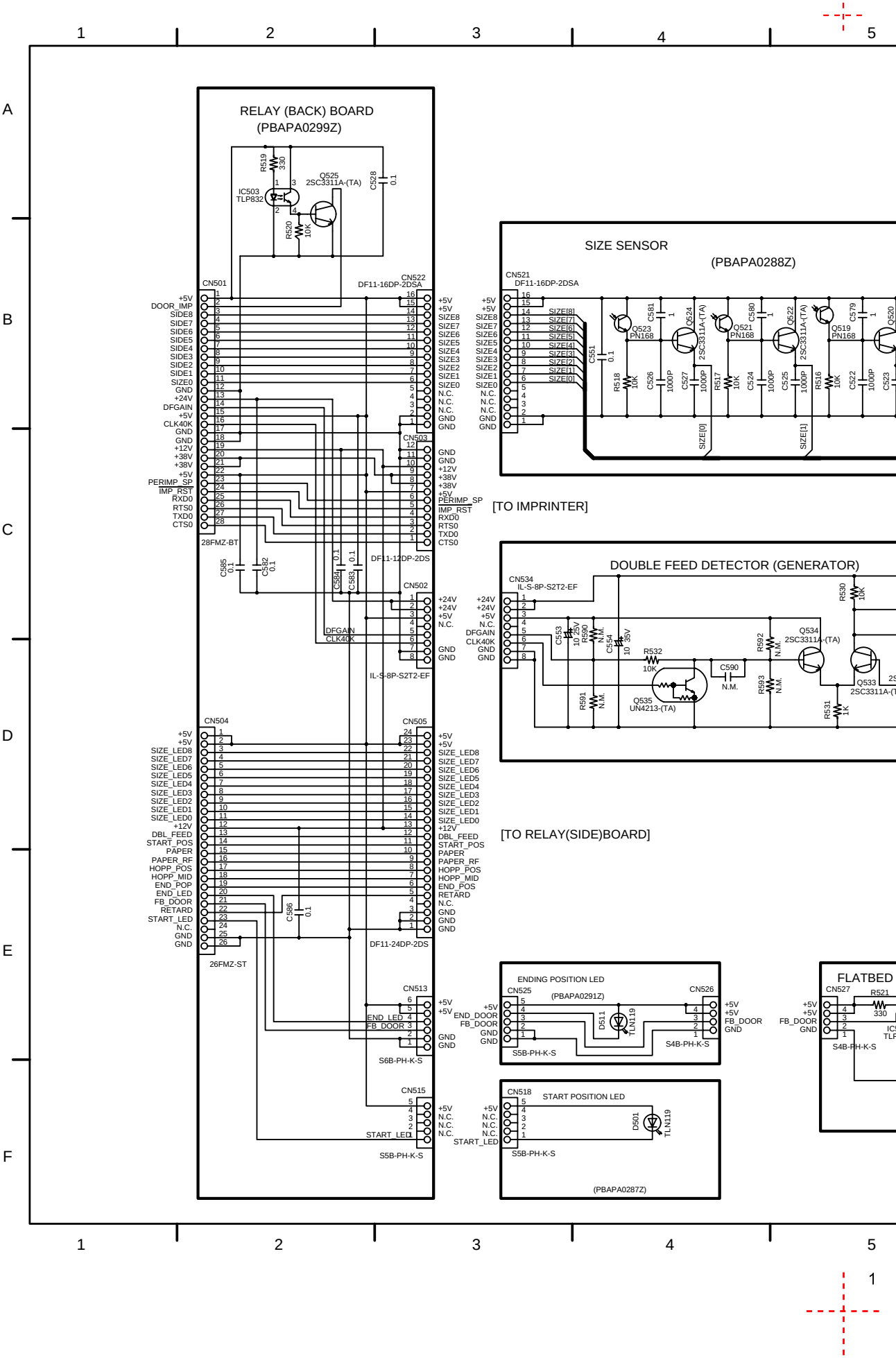
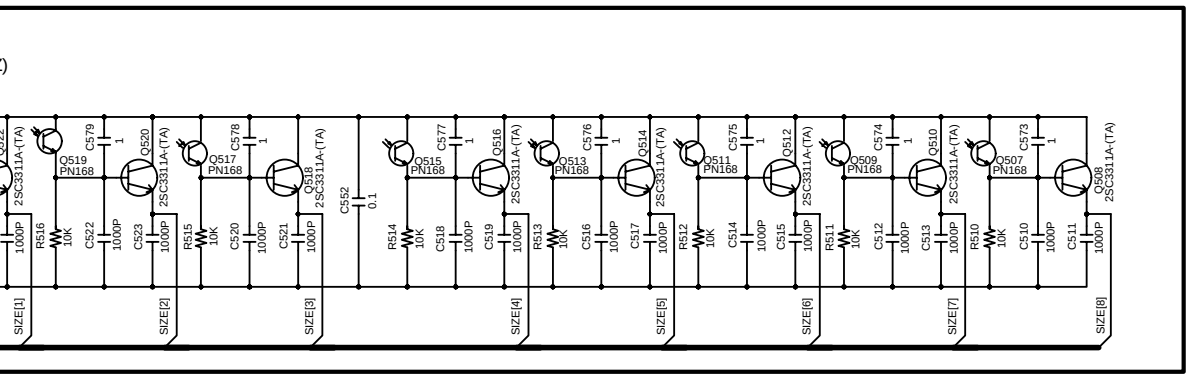
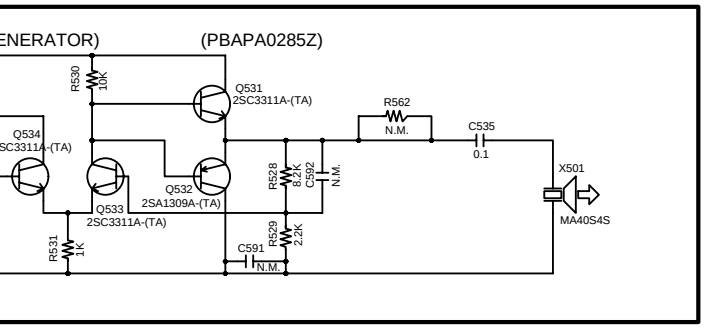
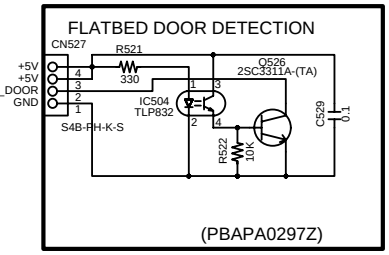

RELAY (BACK) BOARD
(PBAPA0299Z)
SIZE SENSOR
(PBAPA0288Z)
[TO IMPRINTER]
DOUBLE FEED DETECTOR (GENERATOR)
[TO RELAY(SIDE)BOARD]
ENDING POSITION LED
(PBAPA0291Z)
START POSITION LED
(PBAPA0287Z)
FLATBED
CN501
CN502
CN503
CN504
CN505
CN513
CN515
CN521
CN522
CN525
CN526
CN527
CN534
CN518
28FMZ-BT
DF11-12DP-2DS
IL-S-8P-S2T2-EF
26FMZ-ST
DF11-24DP-2DS
S6B-PH-K-S
S5B-PH-K-S
S4B-PH-K-S
DF11-16DP-2DSA
IC503
TLP832
Q525
2SC3311A-(TA)
Q523
PN168
Q524
Q521
Q522
Q519
Q520
Q534
Q535
UN4213-(TA)
Q533
D511
D501
TLN119
SIZE[0]
SIZE[1]
SIZE[2]
SIZE[3]
SIZE[4]
SIZE[5]
SIZE[6]
SIZE[7]
SIZE[8]







[Relay (Back) Board]

KV-S6055/S6050

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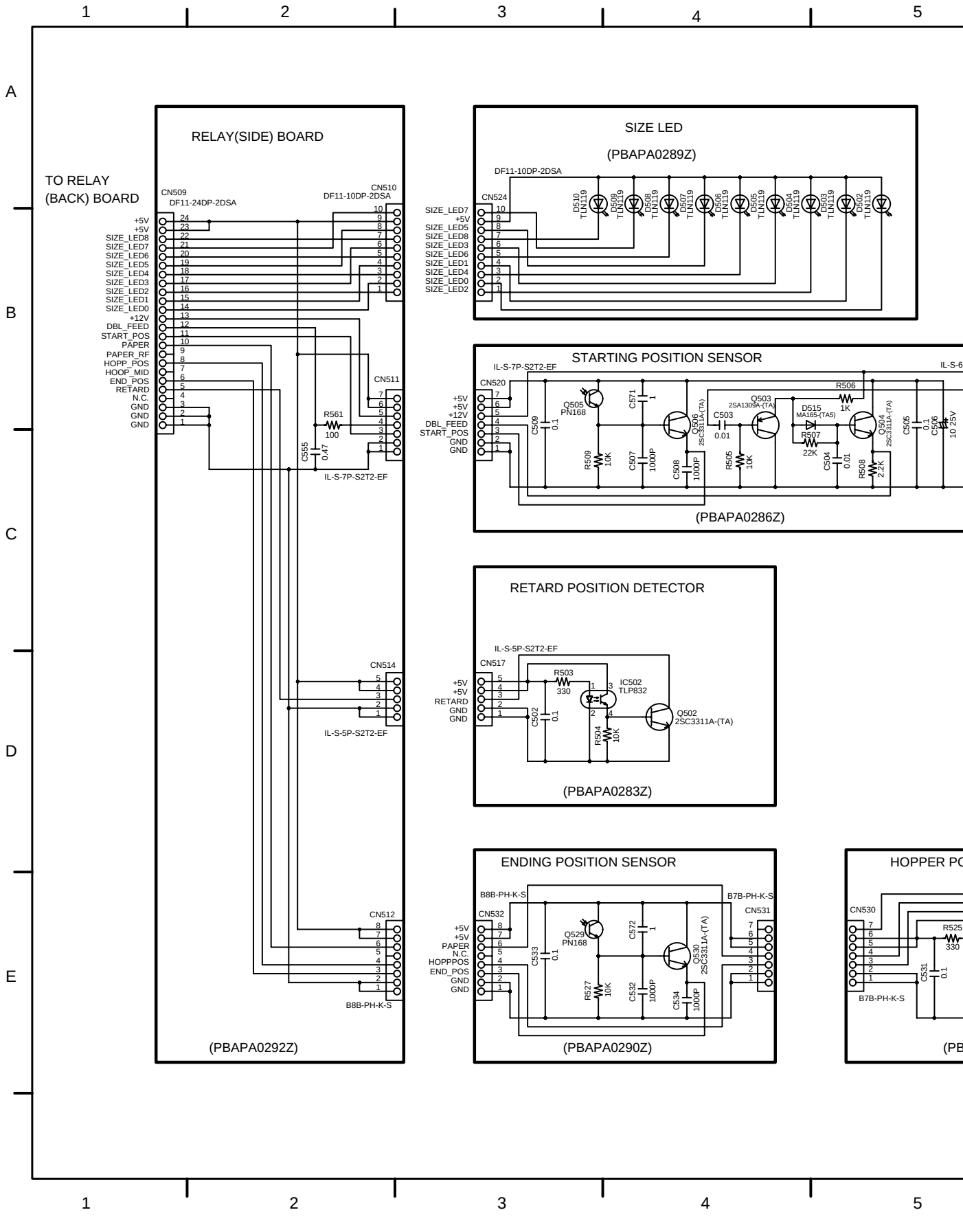
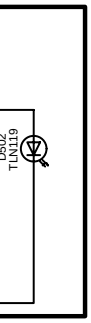
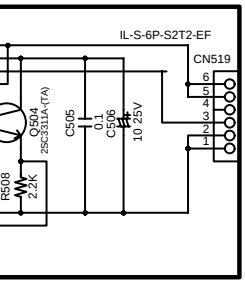
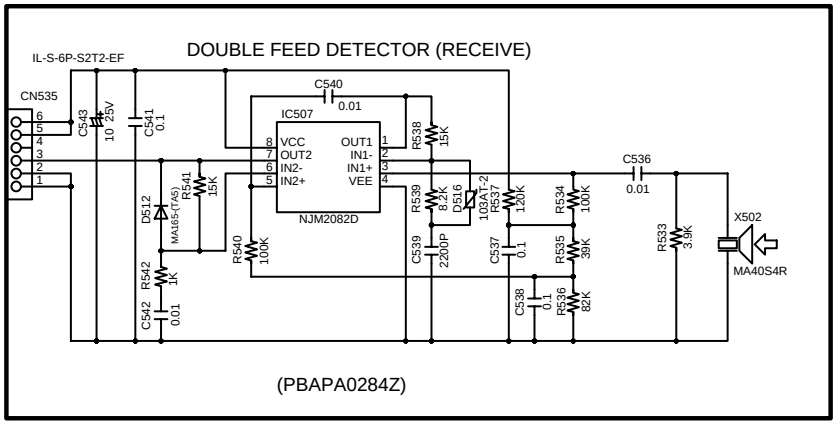
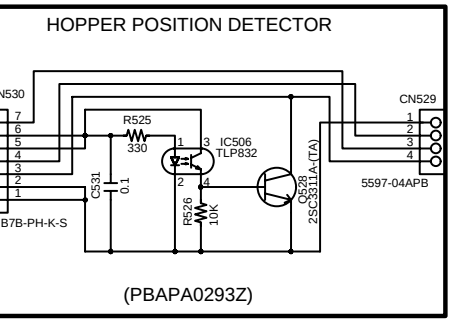

RELAY(SIDE) BOARD
TO RELAY
(BACK) BOARD
CN509
DF11-24DP-2DSA
CN510
DF11-10DP-2DSA
CN511
CN514
CN512
B8B-PH-K-S
IL-S-7P-S2T2-EF
IL-S-5P-S2T2-EF
R561
100
C555
0.47
(PBAPA0292Z)
SIZE LED
(PBAPA0289Z)
DF11-10DP-2DSA
CN524
SIZE_LED7
SIZE_LED5
SIZE_LED8
SIZE_LED3
SIZE_LED6
SIZE_LED1
SIZE_LED4
SIZE_LED0
SIZE_LED2
STARTING POSITION SENSOR
IL-S-7P-S2T2-EF
CN520
Q505
PN168
Q506
2SC3311A-(TA)
Q503
2SA1309A-(TA)
Q504
2SC3311A-(TA)
D515
MA165-(TA5)
R506
1K
R507
22K
C503
0.01
C504
0.01
C505
0.1
C506
0.1
10 25V
R508
2.2K
R509
10K
C507
1000P
C508
1000P
R505
10K
C509
0.1
C571
1
(PBAPA0286Z)
RETARD POSITION DETECTOR
IL-S-5P-S2T2-EF
CN517
R503
330
IC502
TLP832
Q502
2SC3311A-(TA)
C502
0.1
R504
10K
(PBAPA0283Z)
ENDING POSITION SENSOR
B8B-PH-K-S
B7B-PH-K-S
CN532
CN531
Q529
PN168
Q530
2SC3311A-(TA)
C572
1
C533
0.1
R527
10K
C532
1000P
C534
1000P
(PBAPA0290Z)
HOPPER PO
CN530
R525
330
C531
0.1
B7B-PH-K-S
(PB





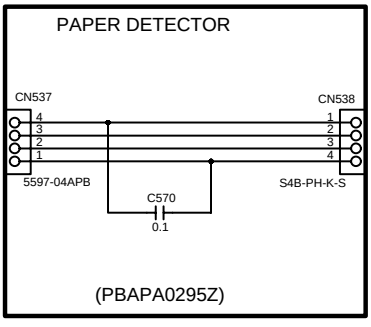


(PBAPA0284Z)



(PBAPA0293Z)

[FCC]



(PBAPA0295Z)

[Relay (Side) Board]

KV-S6055/S6050

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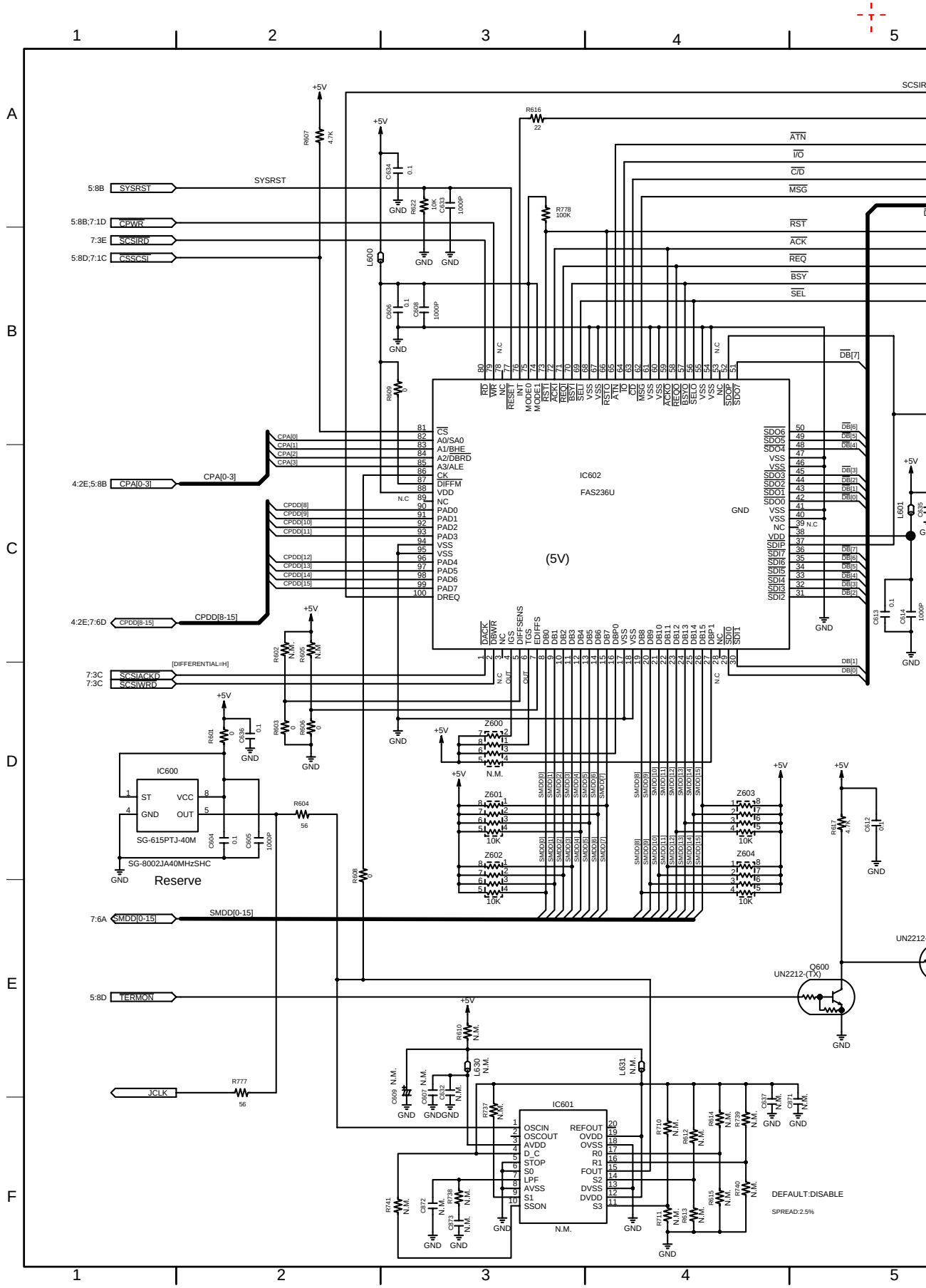
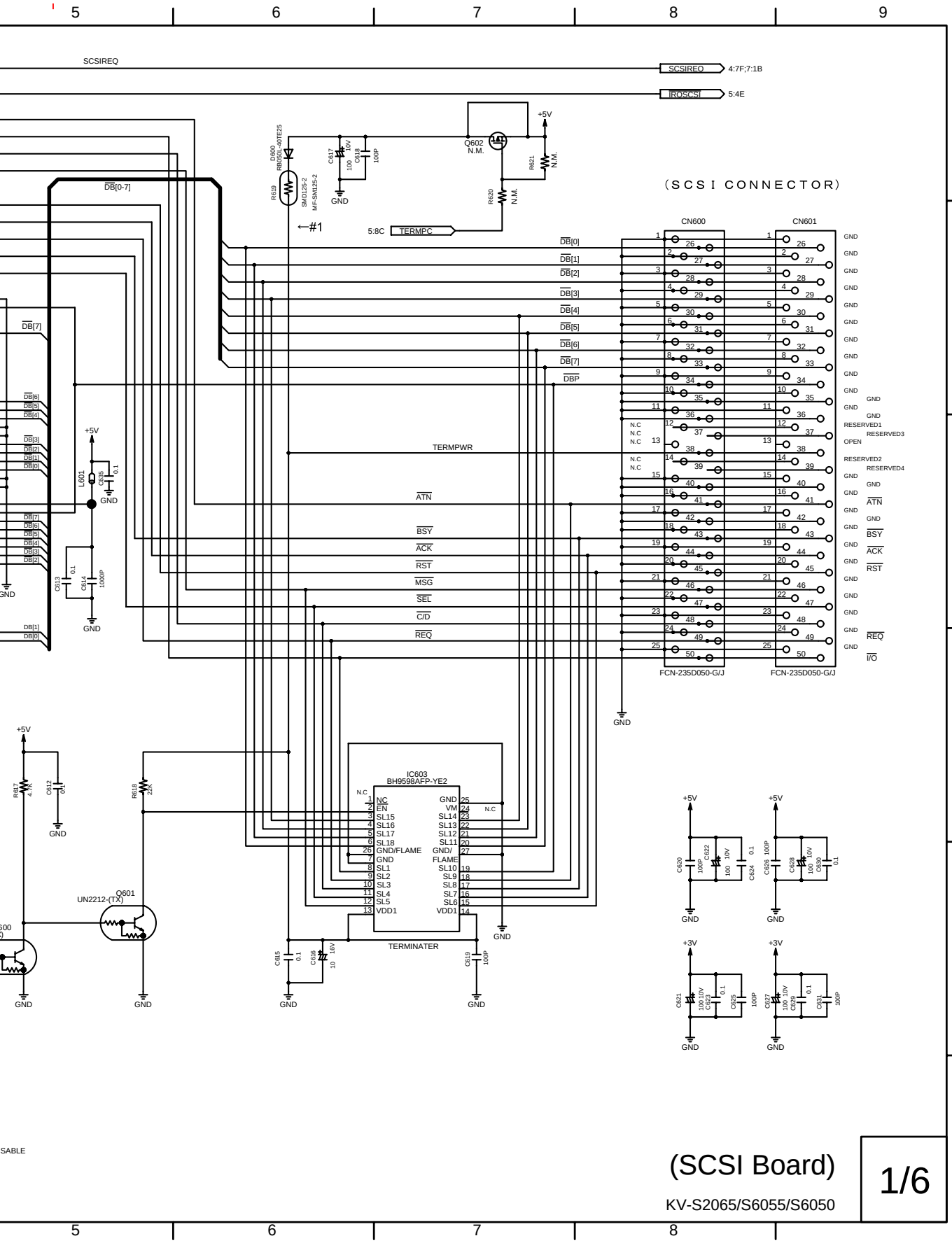
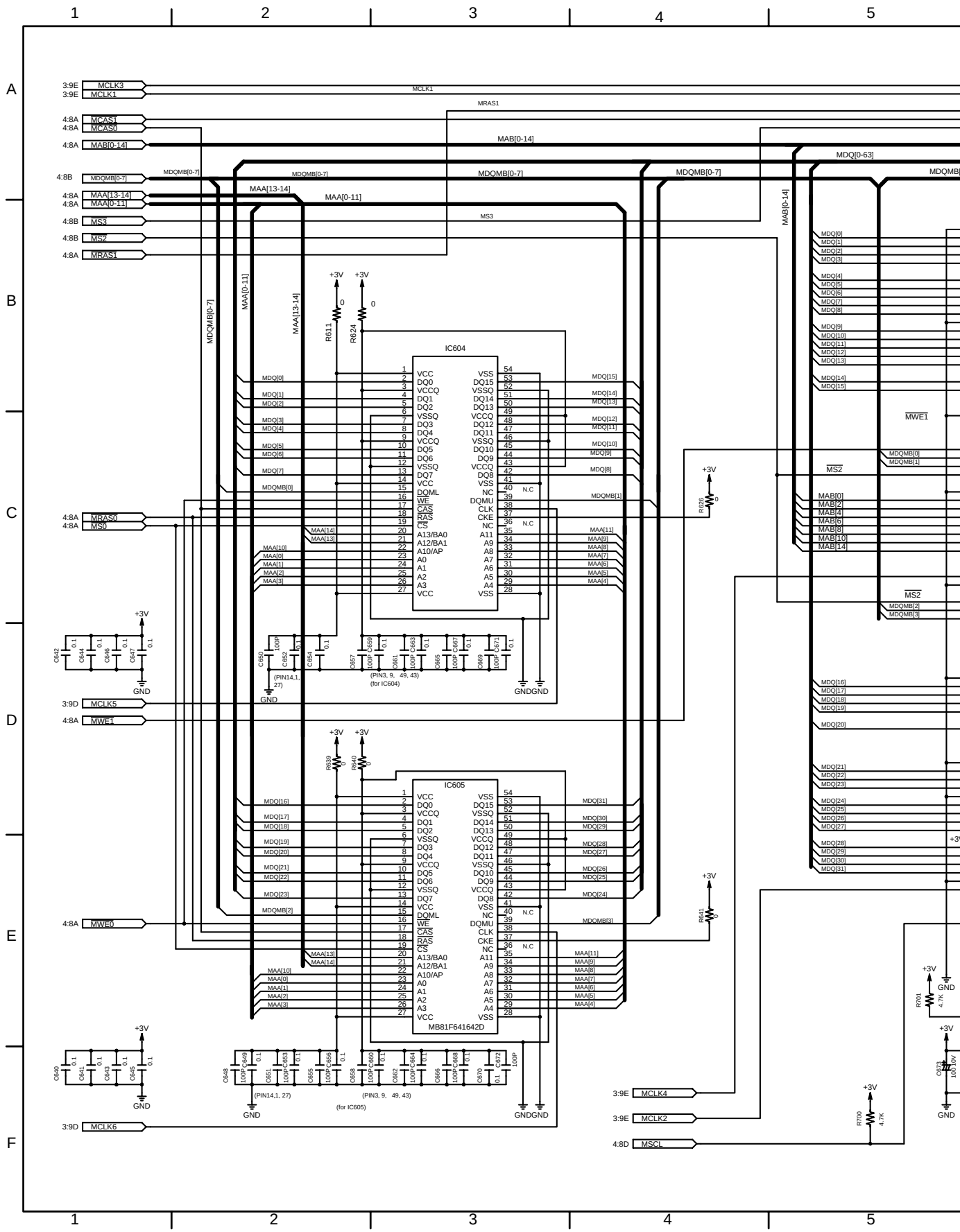
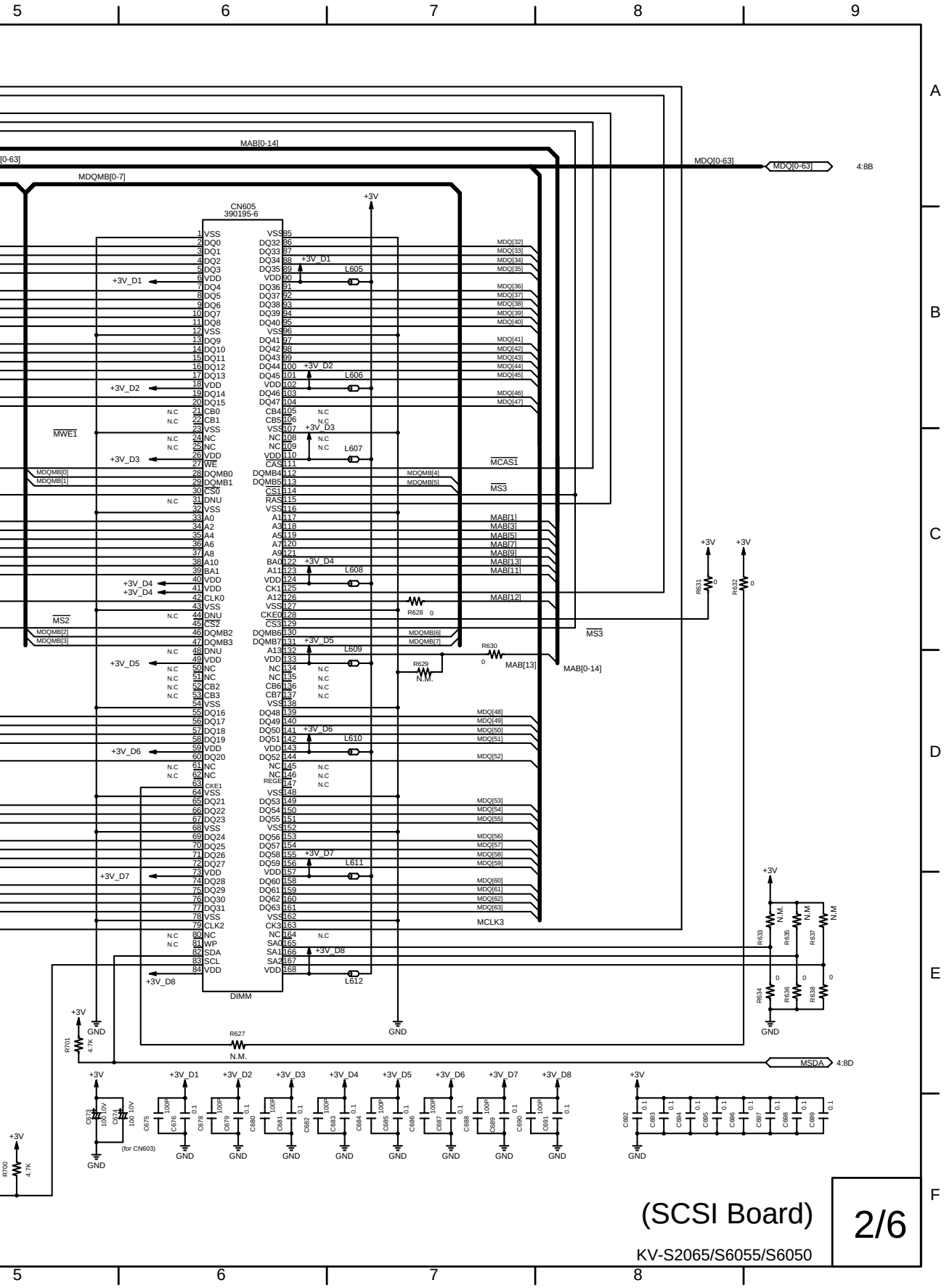

IC602
FAS236U
(5V)
IC600
SG-615PTJ-40M
SG-8002JA40MHzSHC
Reserve
IC601
Q600
UN2212-(TX)
DEFAULT:DISABLE
SPREAD:2.5%
SYSRST
CPWR
SCSIRD
CSSCSI
CPA[0-3]
CPDD[8-15]
SCSIACKD
SCSIWRD
TERMON
SMDD[0-15]
JCLK
[DIFFERENTIAL=H]
N.M.
GND
+5V


SCSIREQ
SCSIREQ 4:7F;7:1B
IROSCSI 5:4E
(SCSI CONNECTOR)
CN600
CN601
FCN-235D050-G/J
FCN-235D050-G/J
TERMPWR
ATN
BSY
ACK
RST
MSG
SEL
C/D
REQ
I/O
TERMPC 5:8C
IC603
BH9598AFP-YE2
TERMINATER
Q601
UN2212-(TX)
Q602
N.M.
(SCSI Board)
KV-S2065/S6055/S6050
1/6

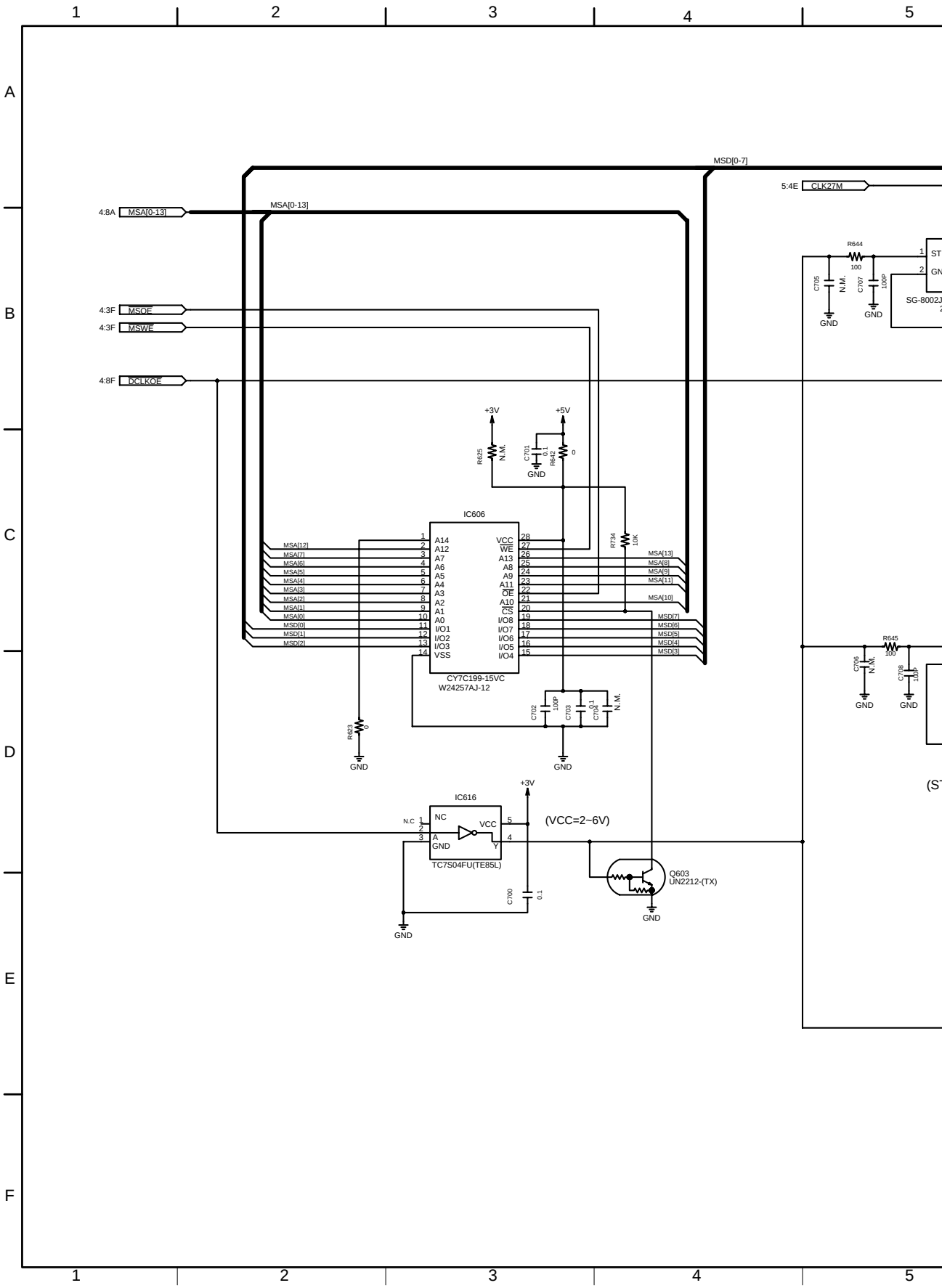

MCLK3
MCLK1
MCAS1
MCAS0
MAB[0-14]
MDQMB[0-7]
MAA[13-14]
MAA[0-11]
MS3
MS2
MRAS1
MRAS0
MS0
MWE1
MWE0
MCLK5
MCLK6
MCLK4
MCLK2
MSCL
MDQ[0-63]
IC604
IC605
MB81F641642D
+3V
GND
R611
R624
R626
R639
R640
R641
R700
R701
4.7K

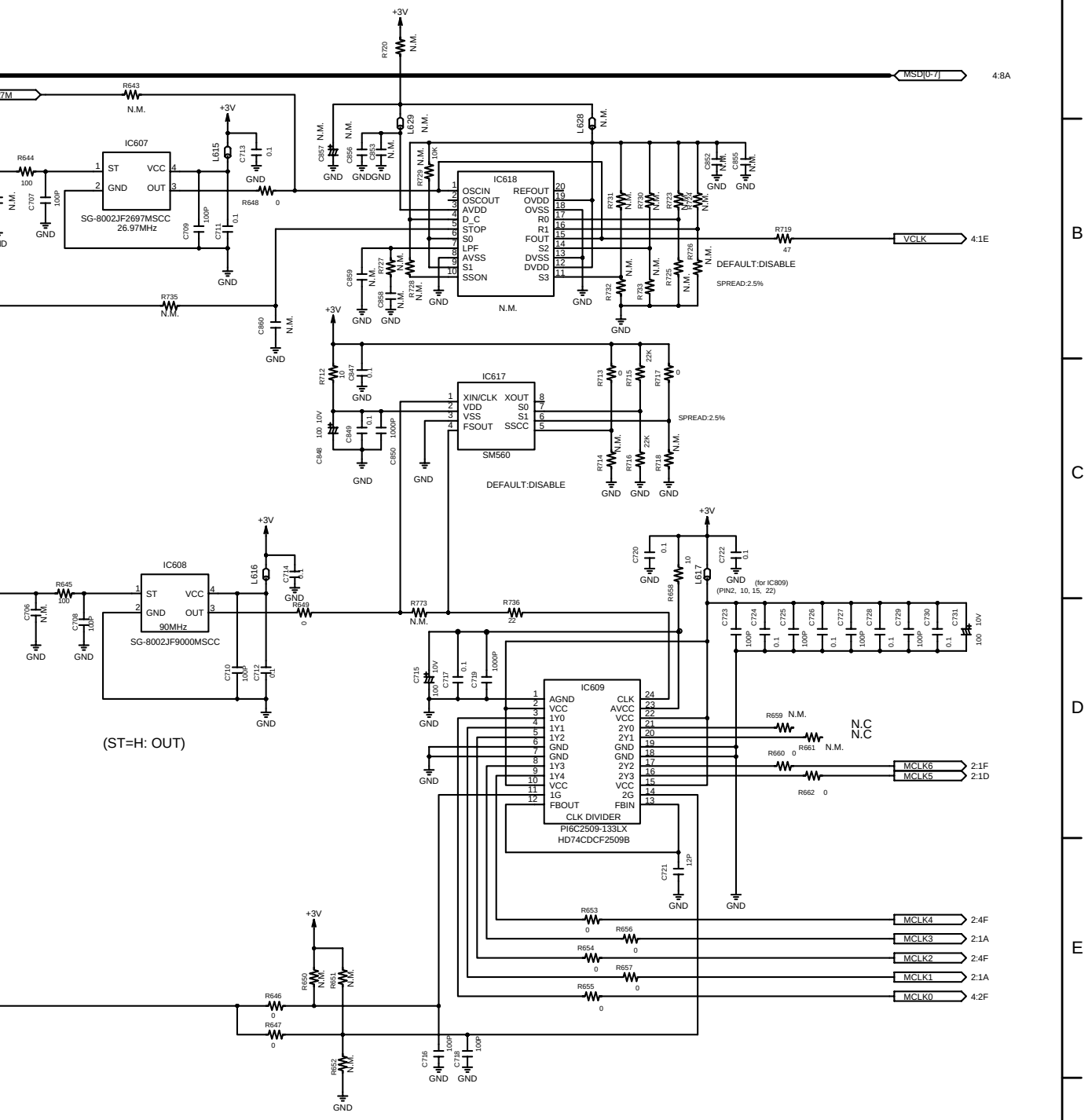


(SCSI Board)

KV-S2065/S6055/S6050

2/6

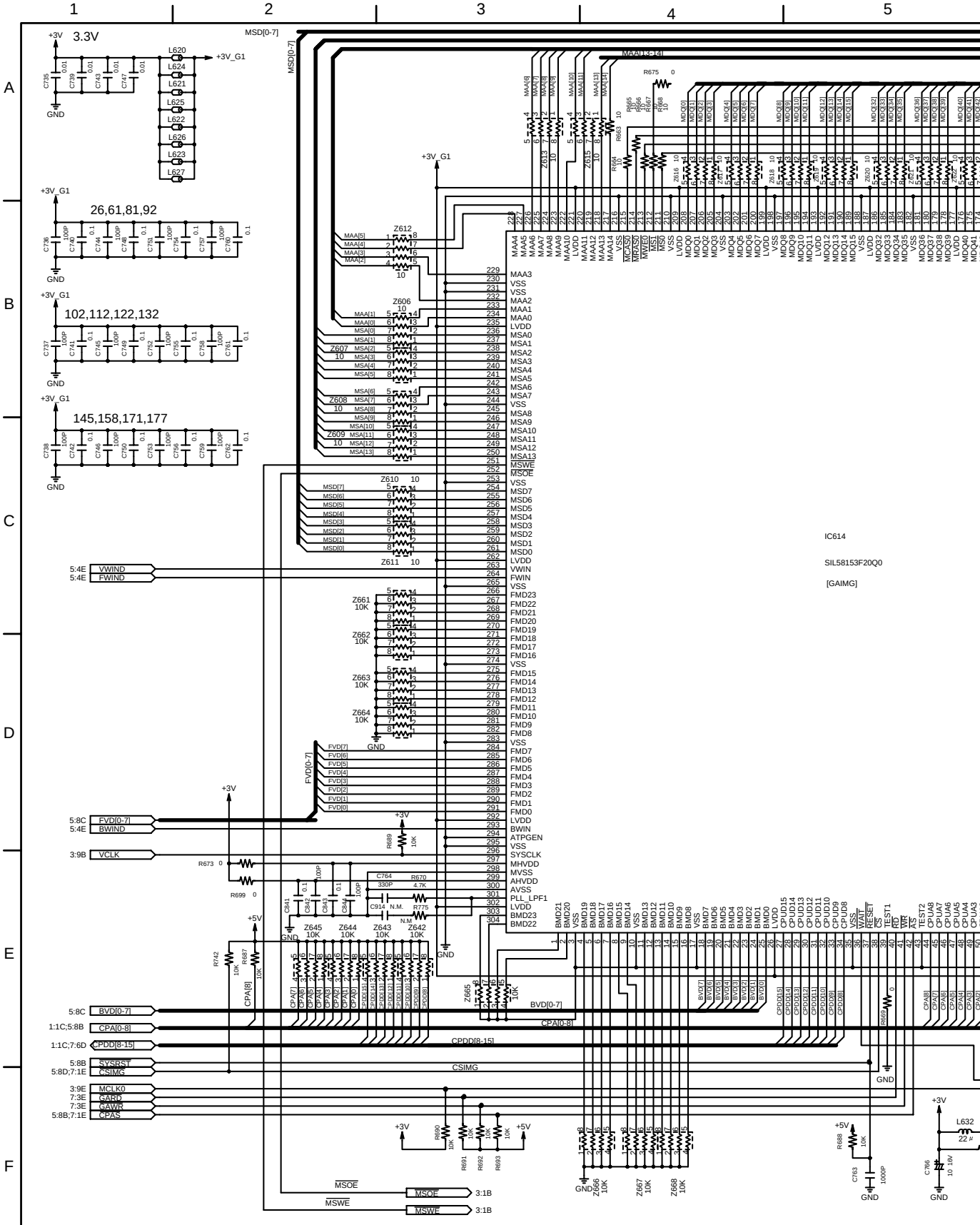

MSD[0-7]
5:4E CLK27M
4:8A MSA[0-13]
MSA[0-13]
4:3F MSOE
4:3F MSWE
4:8F DCLKOE
R644
100
C705
N.M.
C707
100P
GND
SG-8002J
+3V
+5V
R625
N.M.
C701
0.1
R642
0
IC606
R734
10K
MSA[12]
MSA[7]
MSA[6]
MSA[5]
MSA[4]
MSA[3]
MSA[2]
MSA[1]
MSA[0]
MSD[0]
MSD[1]
MSD[2]
A14
A12
A7
A6
A5
A4
A3
A2
A1
A0
I/O1
I/O2
I/O3
VSS
VCC
WE
A13
A8
A9
A11
OE
A10
CS
I/O8
I/O7
I/O6
I/O5
I/O4
MSA[13]
MSA[8]
MSA[9]
MSA[11]
MSA[10]
MSD[7]
MSD[6]
MSD[5]
MSD[4]
MSD[3]
CY7C199-15VC
W24257AJ-12
C702
100P
C703
0.1
C704
N.M.
R645
100
C706
N.M.
C708
100P
R623
0
IC616
N.C
NC
VCC
A
GND
Y
TC7S04FU(TE85L)
(VCC=2~6V)
C700
0.1
Q603
UN2212-(TX)

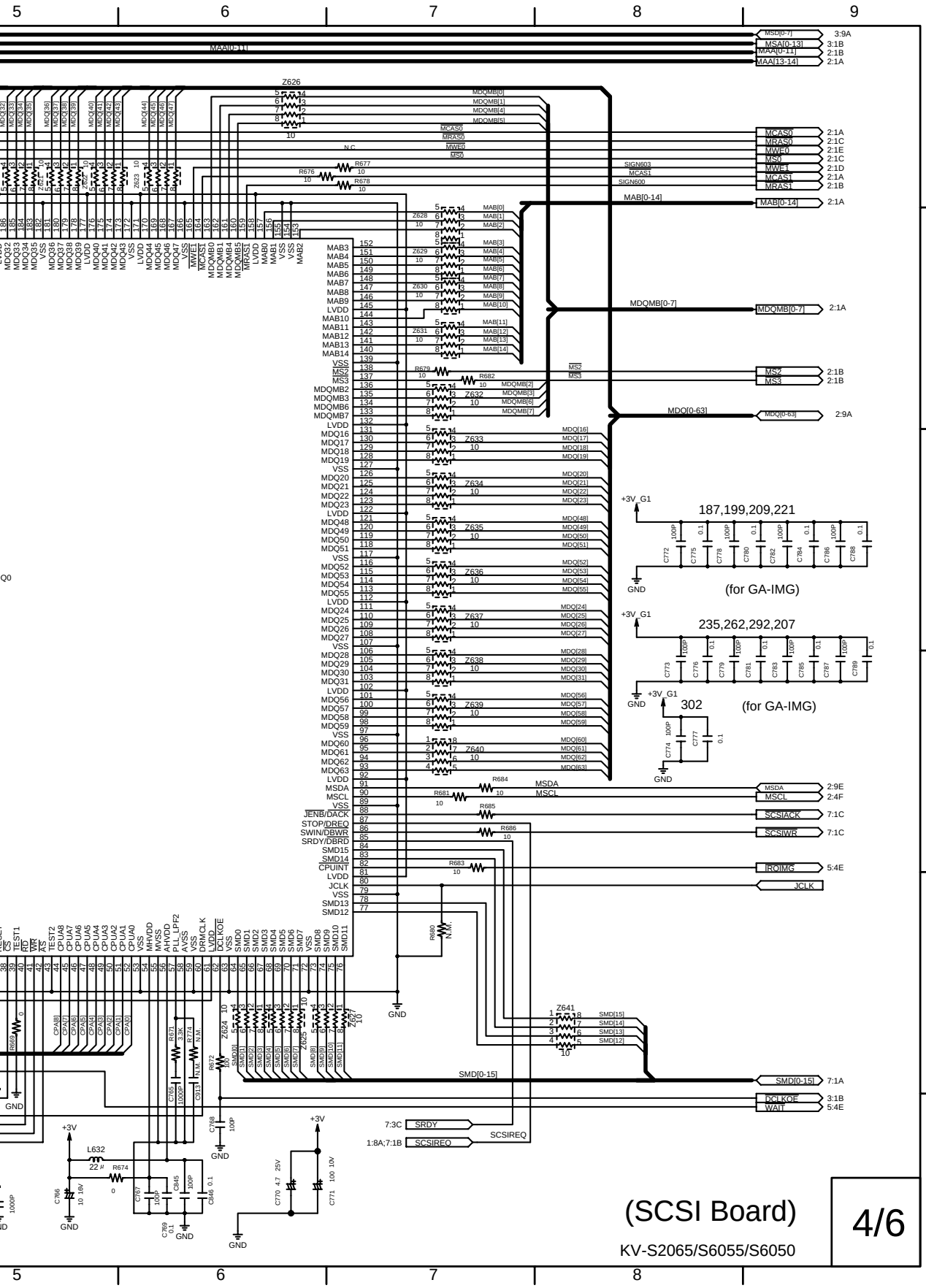


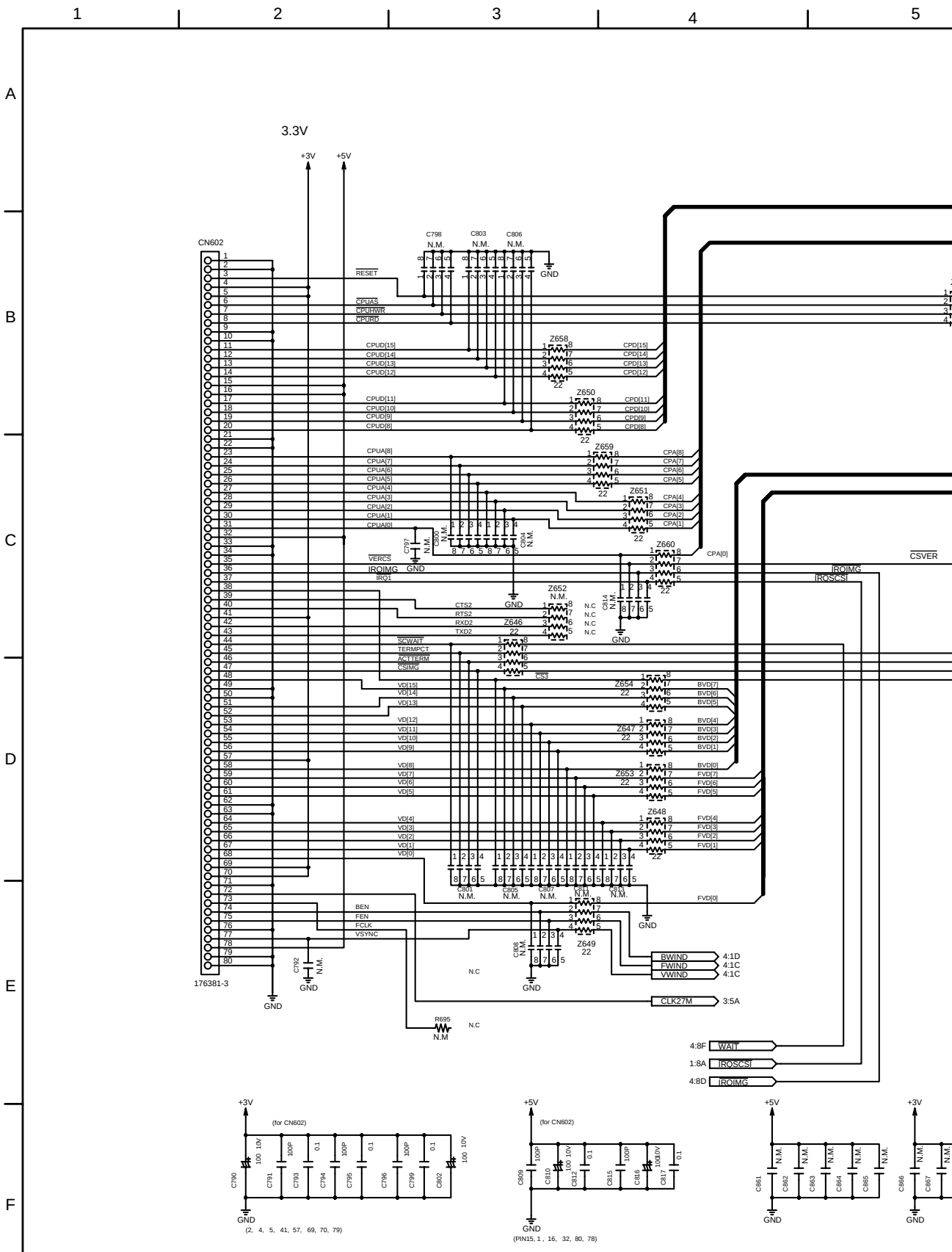
(SCSI Board)

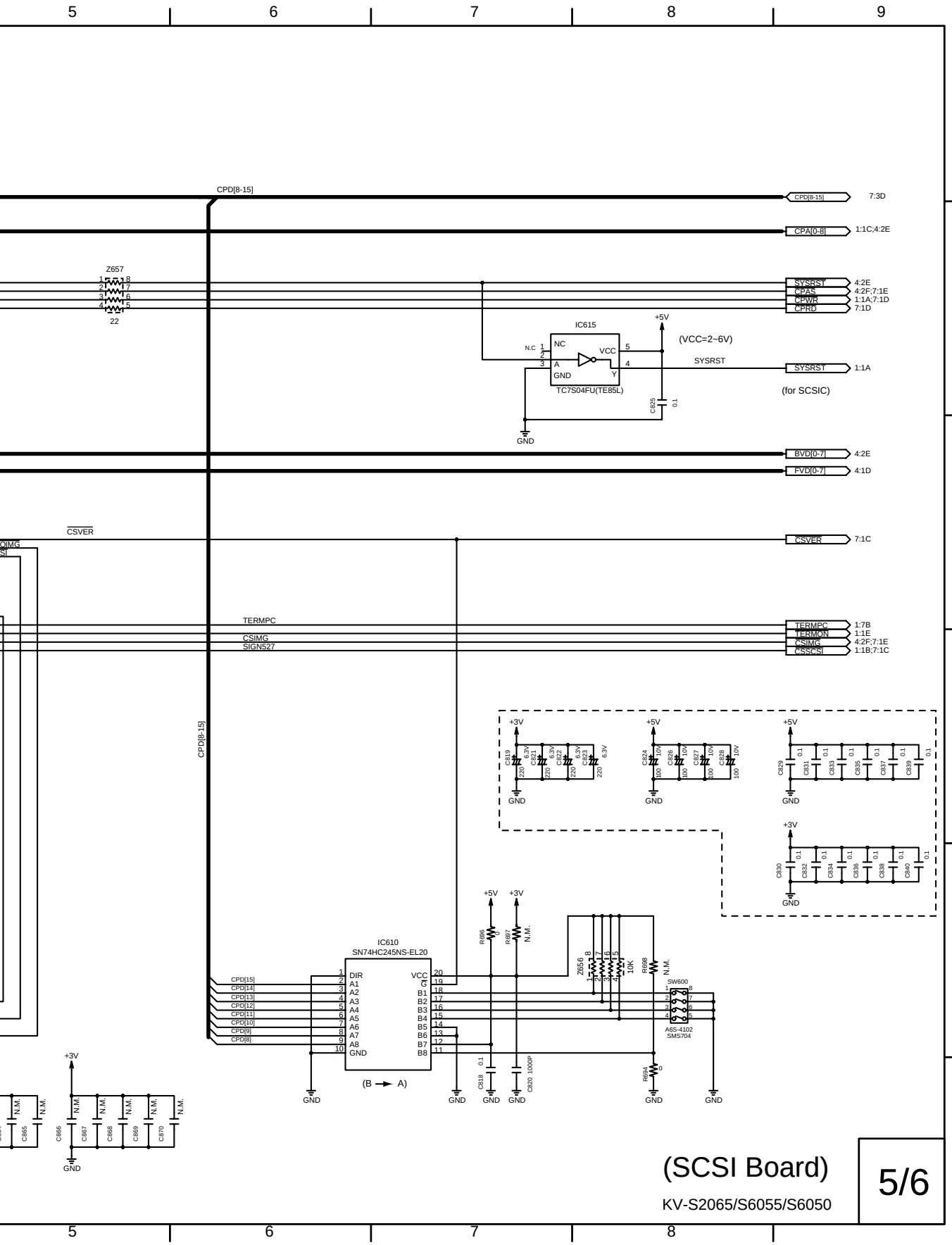
KV-S2065/S6055/S6050

3/6


IC614
SIL58153F20Q0
[GAIMG]
MSD[0-7]
MAA[13:4]
3.3V
+3V_G1
26,61,81,92
102,112,122,132
145,158,171,177
VWIND
FWIND
FVD[0-7]
BWIND
VCLK
BVD[0-7]
CPA[0-8]
CPDD[8-15]
SYSRST
CSIMG
MCLK0
GARD
GAWR
CPAS
MSOE
MSWE
BMD[0-23]
FMD[0-23]
CPUD[0-15]
CPUA[0-8]


(SCSI Board)
KV-S2065/S6055/S6050
4/6
187,199,209,221
(for GA-IMG)
235,262,292,207
(for GA-IMG)
302
MAA[0-11]
MAB[0-14]
MDQMB[0-7]
MDQ[0-63]
SMD[0-15]
SCSIREQ
SRDY
GND
+3V
+3V_G1

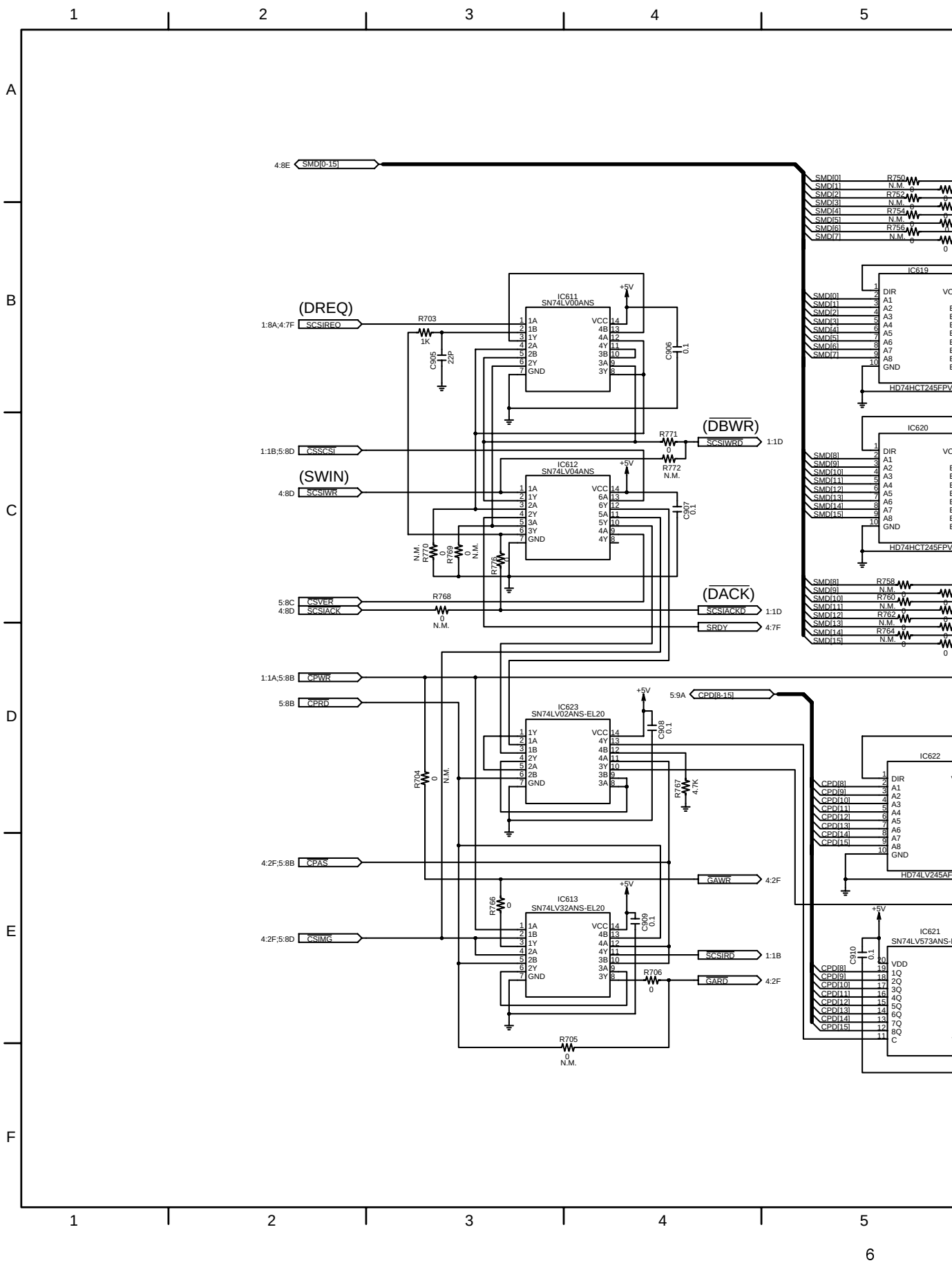

3.3V
+3V
+5V
CN602
176381-3
GND
RESET
CPUAS
CPUHWR
CPURD
CPUD[15]
CPUD[14]
CPUD[13]
CPUD[12]
CPUD[11]
CPUD[10]
CPUD[9]
CPUD[8]
CPUA[8]
CPUA[7]
CPUA[6]
CPUA[5]
CPUA[4]
CPUA[3]
CPUA[2]
CPUA[1]
CPUA[0]
VERCS
IRQIMG
IRQ1
CTS2
RTS2
RXD2
TXD2
SCWAIT
TERMPCT
ACTTERM
CSIMG
VD[15]
VD[14]
VD[13]
VD[12]
VD[11]
VD[10]
VD[9]
VD[8]
VD[7]
VD[6]
VD[5]
VD[4]
VD[3]
VD[2]
VD[1]
VD[0]
BEN
FEN
FCLK
VSYNC
Z658
Z650
Z659
Z651
Z660
Z652
Z646
Z654
Z647
Z653
Z648
Z649
BVD[7]
BVD[6]
BVD[5]
BVD[4]
BVD[3]
BVD[2]
BVD[1]
BVD[0]
FVD[7]
FVD[6]
FVD[5]
FVD[4]
FVD[3]
FVD[2]
FVD[1]
FVD[0]
BWIND
FWIND
VWIND
CLK27M
WAIT
IROSCS
IROIMG
CSVER
(for CN602)
(2, 4, 5, 41, 57, 69, 70, 79)
(PIN15, 1 , 16, 32, 80, 78)

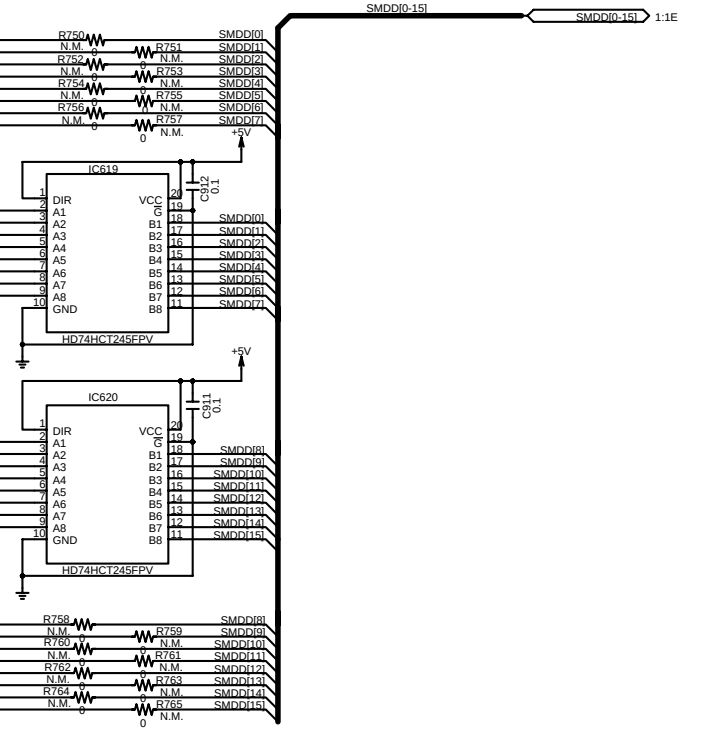


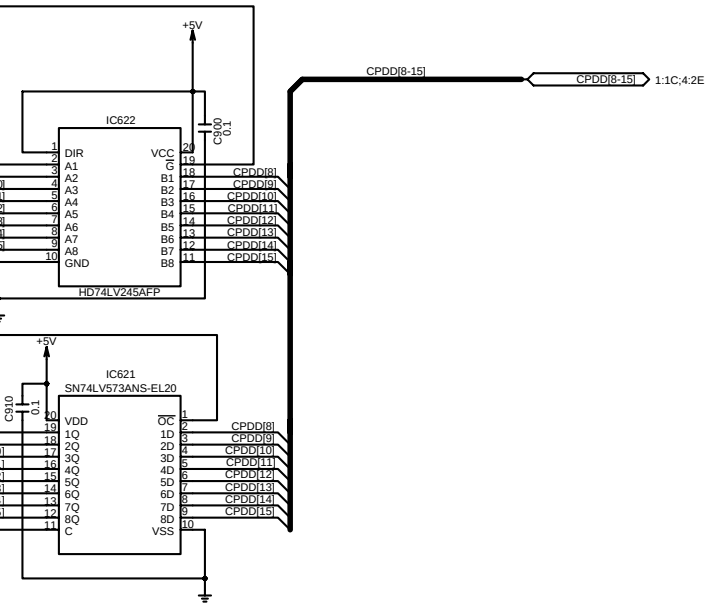
(SCSI Board)

KV-S2065/S6055/S6050

5/6


4:8E SMD[0-15]
(DREQ)
1:8A;4:7F SCSIREQ
R703 1K
C905 22P
IC611 SN74LV00ANS
C906 0.1
1:1B;5:8D CSSCS
(DBWR)
R771 0
SCSIWRD 1:1D
R772 N.M.
IC612 SN74LV04ANS
(SWIN)
4:8D SCSIWR
C907 0.1
R770 N.M.
R769 0 N.M.
R776 0
5:8C CSVER
4:8D SCSIACK
R768 0 N.M.
(DACK)
SCSIACKD 1:1D
SRDY 4:7F
1:1A;5:8B CPWR
5:8B CPRD
IC623 SN74LV02ANS-EL20
C908 0.1
R704 0 N.M.
R767 4.7K
5:9A CPD[8-15]
4:2F;5:8B CPAS
GAWR 4:2F
IC613 SN74LV32ANS-EL20
R766 0
C909 0.1
4:2F;5:8D CSIMG
SCSIRD 1:1B
GARD 4:2F
R706 0
R705 0 N.M.
IC619
IC620
IC622
IC621
HD74HCT245FPV
HD74LV245AF
SMD[0] SMD[1] SMD[2] SMD[3] SMD[4] SMD[5] SMD[6] SMD[7]
SMD[8] SMD[9] SMD[10] SMD[11] SMD[12] SMD[13] SMD[14] SMD[15]
CPD[8] CPD[9] CPD[10] CPD[11] CPD[12] CPD[13] CPD[14] CPD[15]
R750 R752 R754 R756 R758 R760 R762 R764
N.M. 0
+5V
C910 0.1

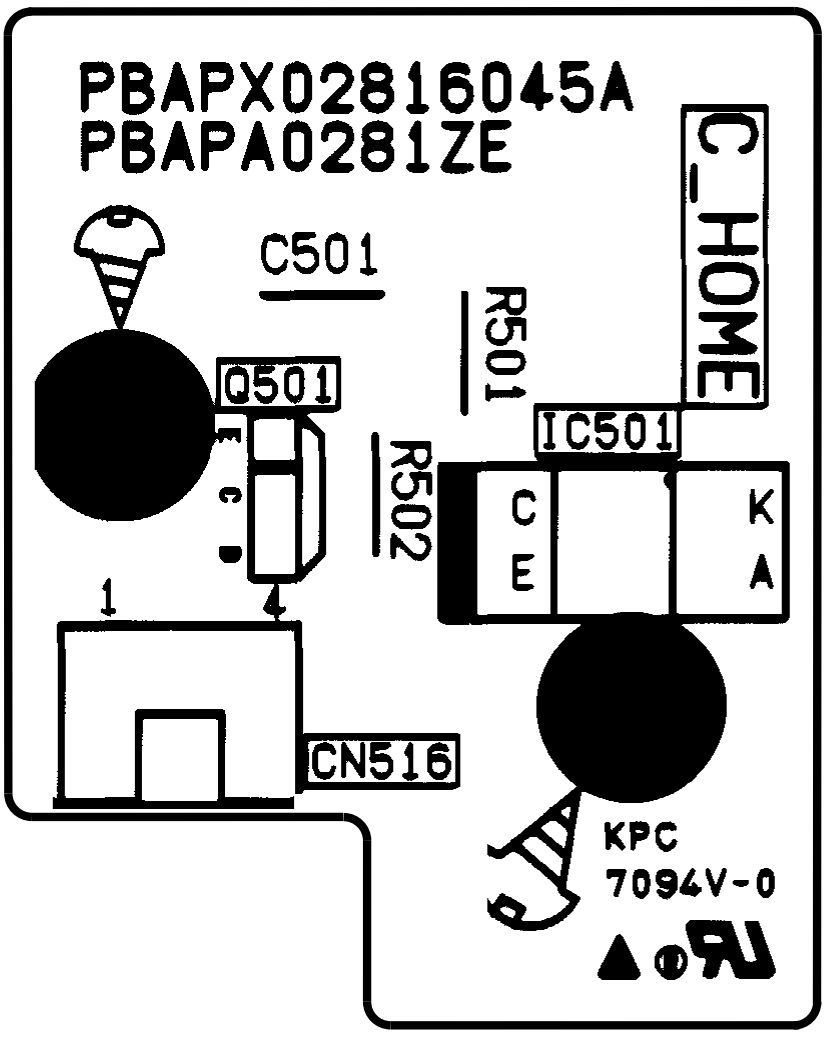


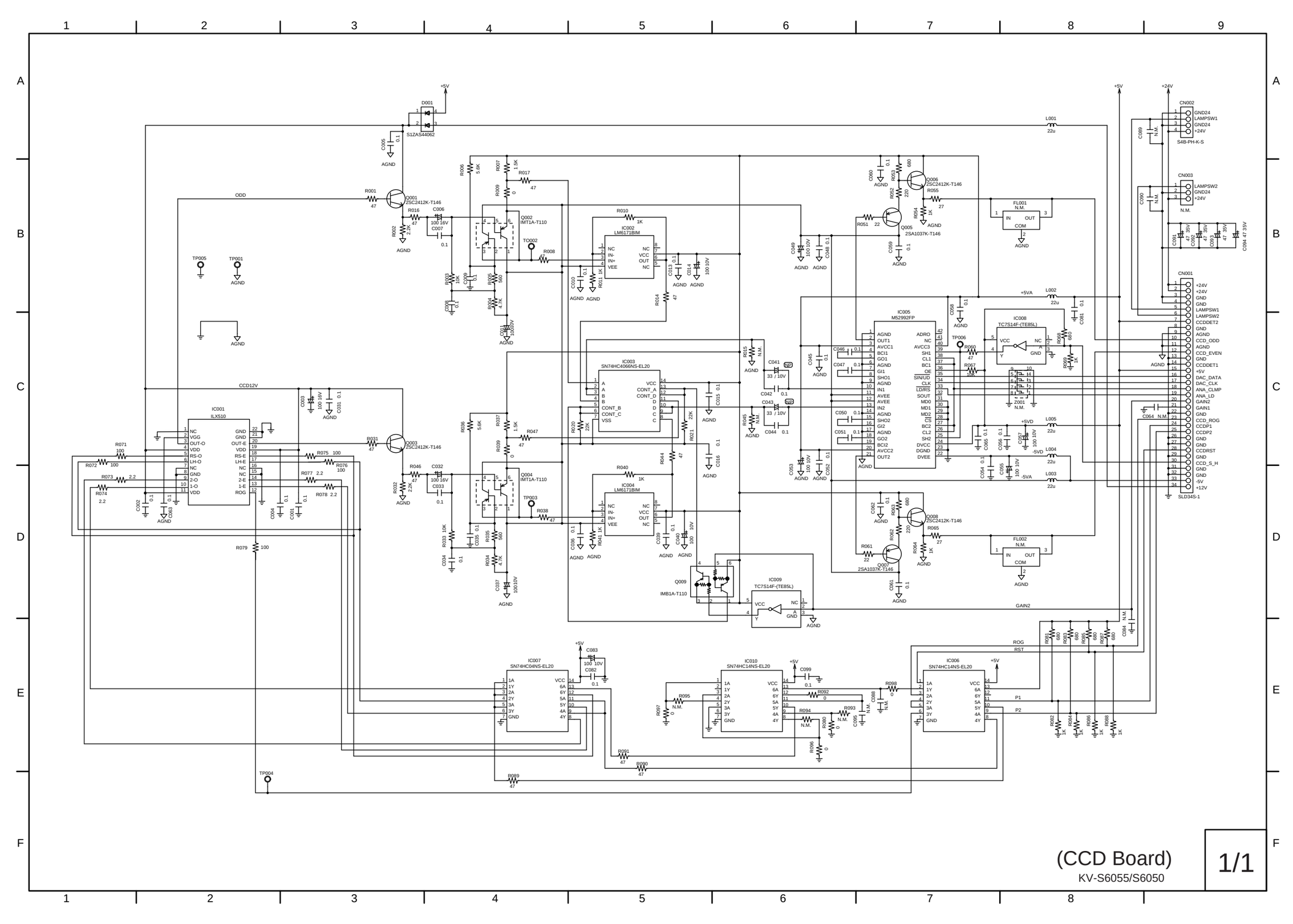


(SCSI Board)

KV-S2065/S6055/S6050

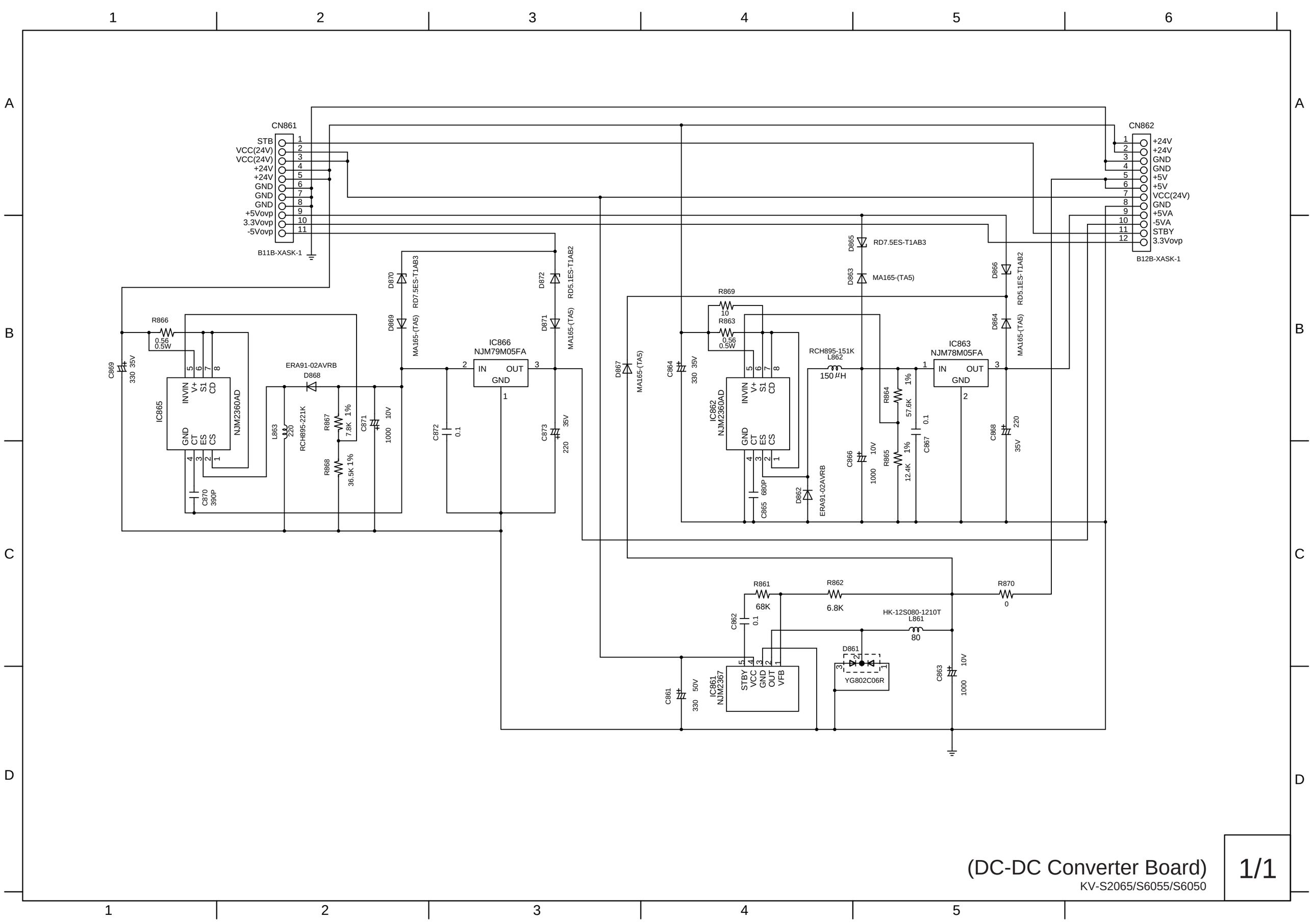
6/6


PBAPX02816045A
PBAPA0281ZE
C501
R501
C_HOME
Q501
IC501
R502
C
E
K
A
1
4
CN516
KPC
7094V-0


(CCD Board)
KV-S6055/S6050
1/1

(Component Side)

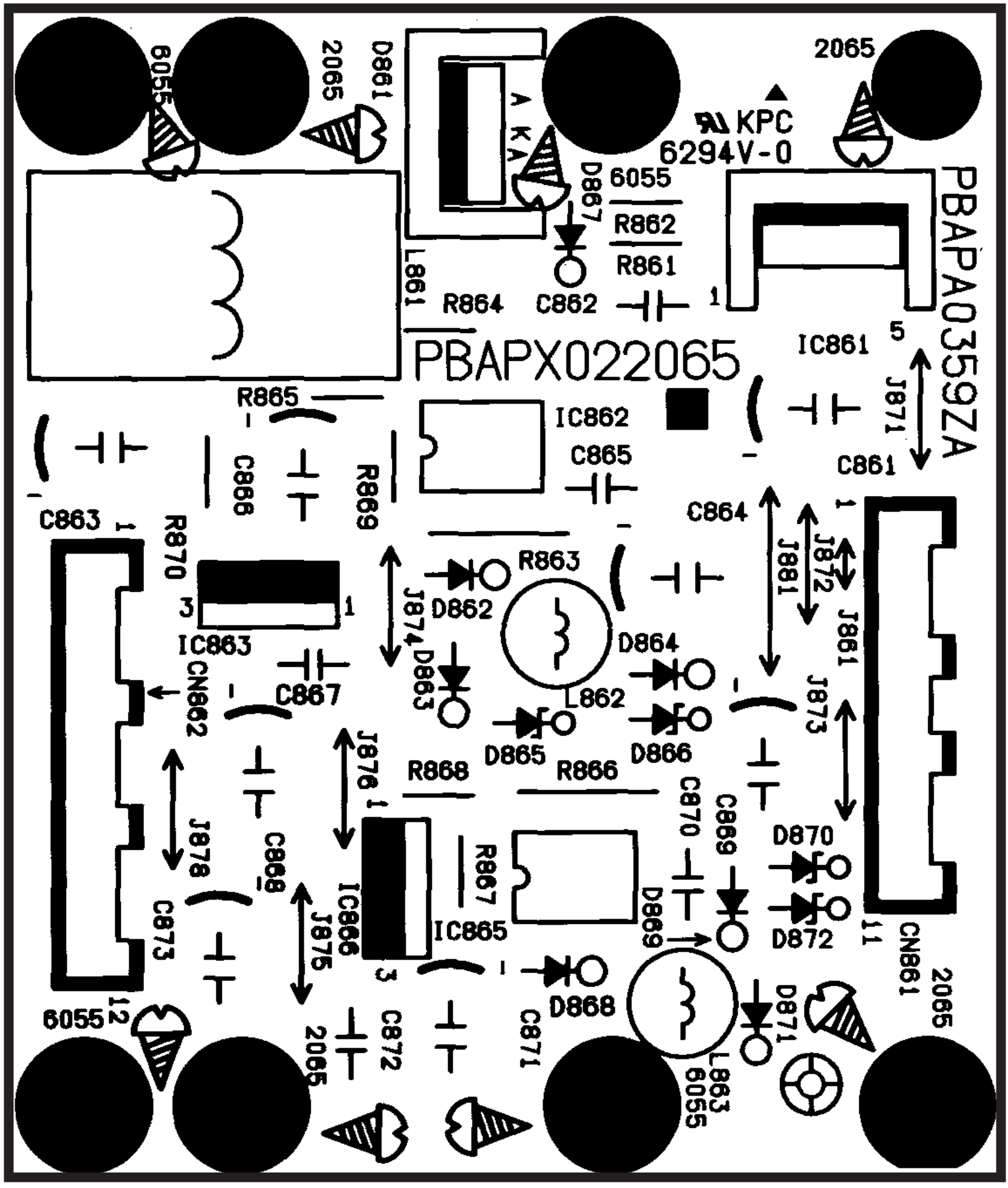
(Solder Side)

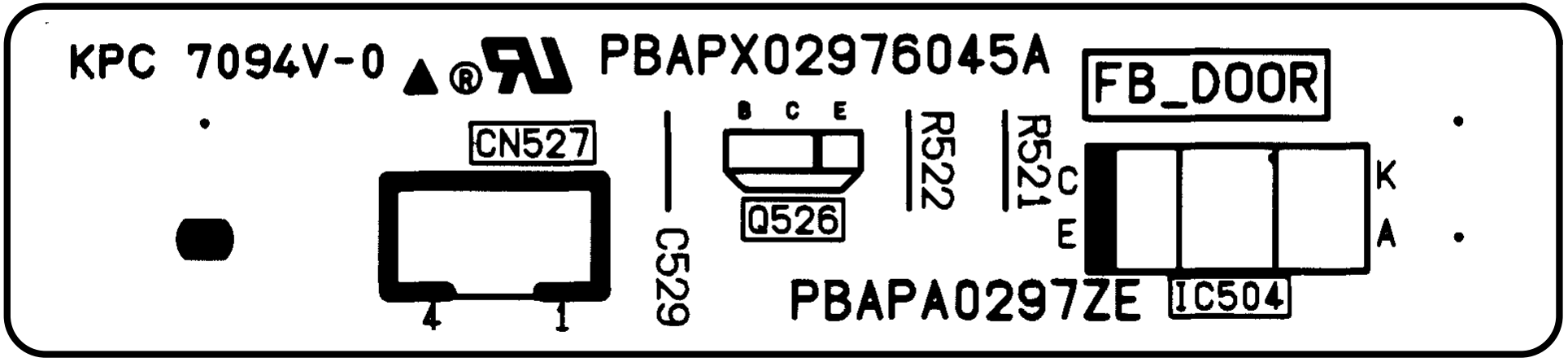


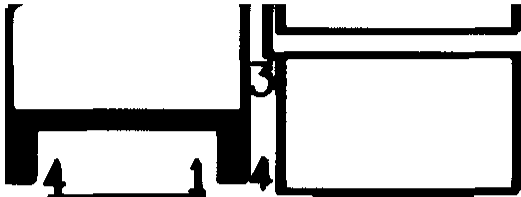
(DC-DC Converter Board)

KV-S2065/S6055/S6050

1/1


PBAPX022065
PBAPA035ZA
KPC
6294V-0
IC861
IC862
IC863
IC865
IC866
CN862
CN861
L861
L862
L863
R861
R862
R863
R864
R865
R866
R867
R868
R869
R870
C861
C862
C863
C864
C865
C866
C867
C868
C869
C870
C871
C872
C873
D861
D862
D863
D864
D865
D866
D867
D868
D869
D870
D871
D872
J861
J871
J872
J873
J874
J875
J876
J878
J881
2065
6055


KPC 7094V-0
PBAPX02976045A
FB_DOOR
CN527
4
1
C529
B C E
Q526
R522
R521
C
E
K
A
PBAPA0297ZE
IC504

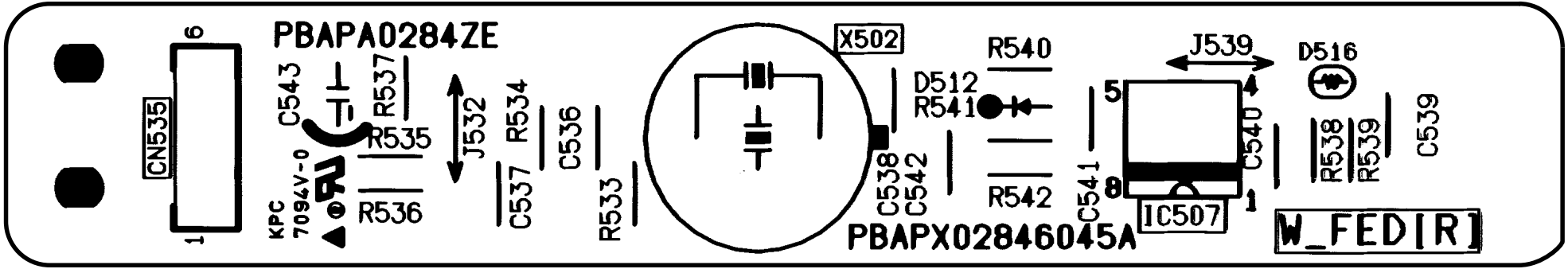


C570

PAPER

KPC 7094V-0

PBAPA0295ZE
PBAPX02956045A


PBAPA0284ZE
CN535
6
1
C543
R537
R535
R536
J532
R534
C537
C536
R533
KPC
7094V-0
X502
C538
C542
R540
D512
R541
R542
J539
D516
5
4
8
1
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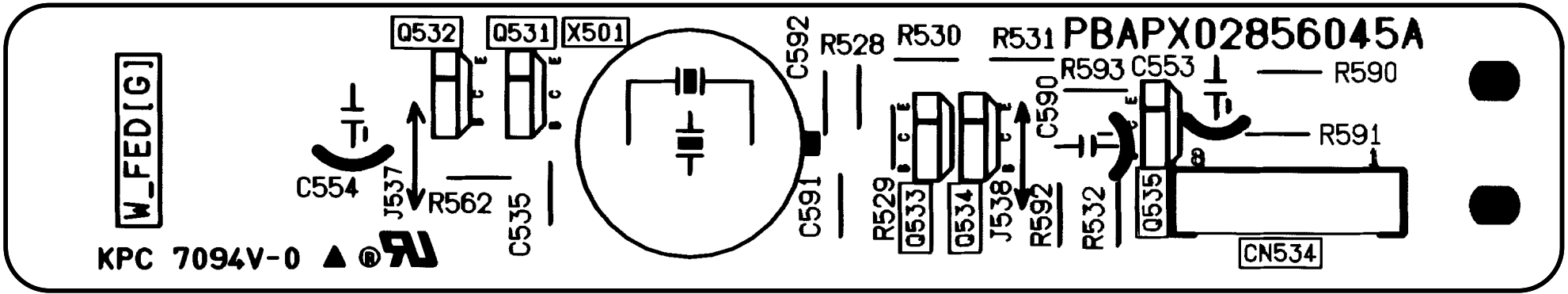
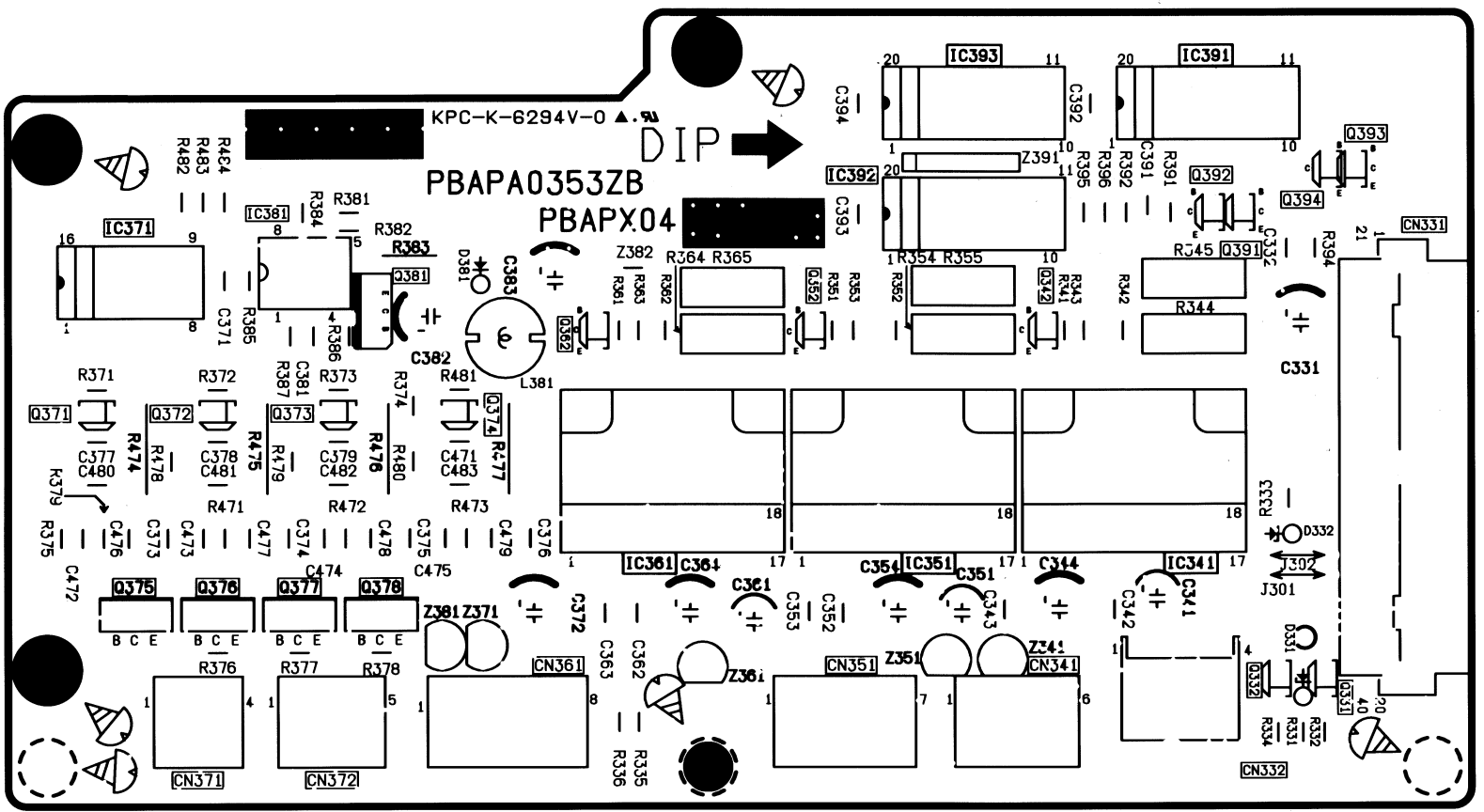
C540
IC507
R538
R539
C539
PBAPX02846045A
W_FED[R]


W_FED[G]
KPC 7094V-0
Q532
Q531
X501
C554
J537
R562
C535
C592
R528
R530
R531
PBAPX02856045A
C591
R529
Q533
Q534
J538
R592
C590
R593
C553
R590
R591
R532
Q535
CN534


KPC-K-6294V-0
DIP
PBAPA0353ZB
PBAPX04
IC393
IC391
IC392
IC371
IC381
IC361
IC351
IC341
Z391
Z382
Z381
Z371
Z361
Z351
Z341
L381
CN331
CN332
CN361
CN351
CN341
CN371
CN372
Q393
Q392
Q394
Q391
Q371
Q372
Q373
Q374
Q375
Q376
Q377
Q378
Q381
Q382
Q352
Q342
C331
C332
C333
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C342
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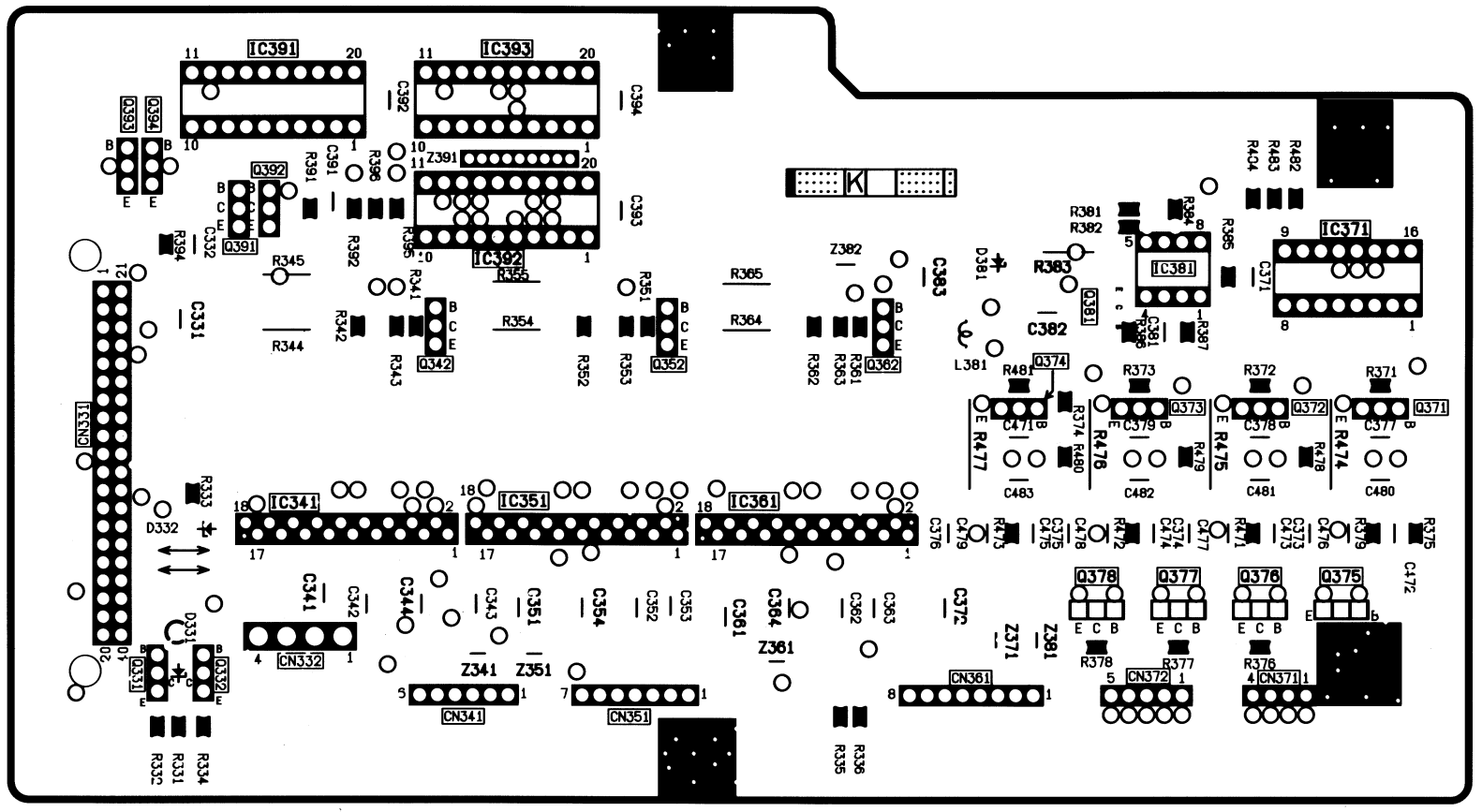
R484
D331
D332
J301
J302
D381
C381
C382
C383


IC391
IC393
IC392
Z391
IC381
IC371
IC341
IC351
IC361
CN331
CN332
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CN351
CN361
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Q391
Q392
Q393
Q394
Q331
Q332
Q341
Q342
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Q374
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Q377
Q378
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R476
R477
R478
R479
R480
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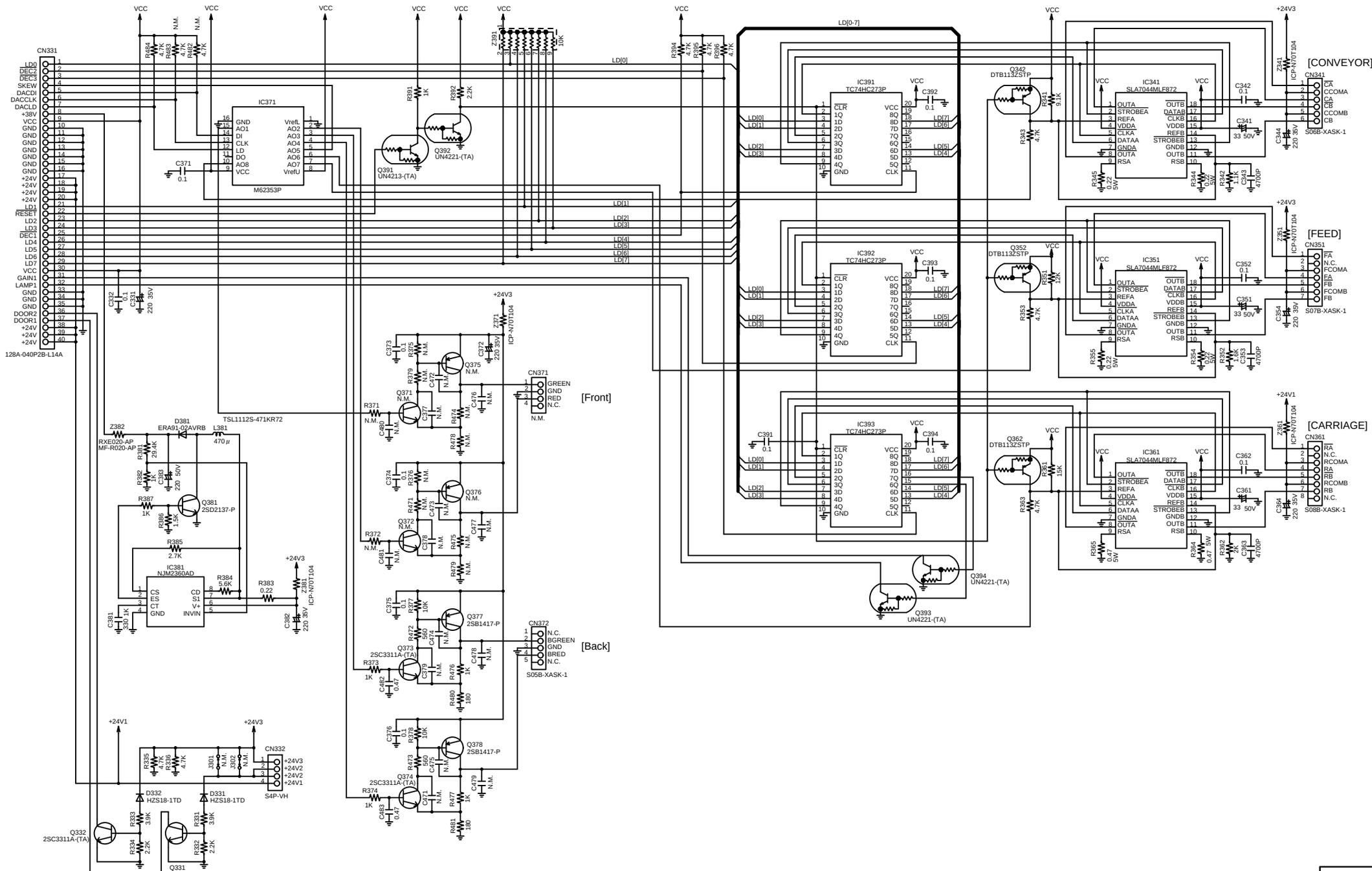
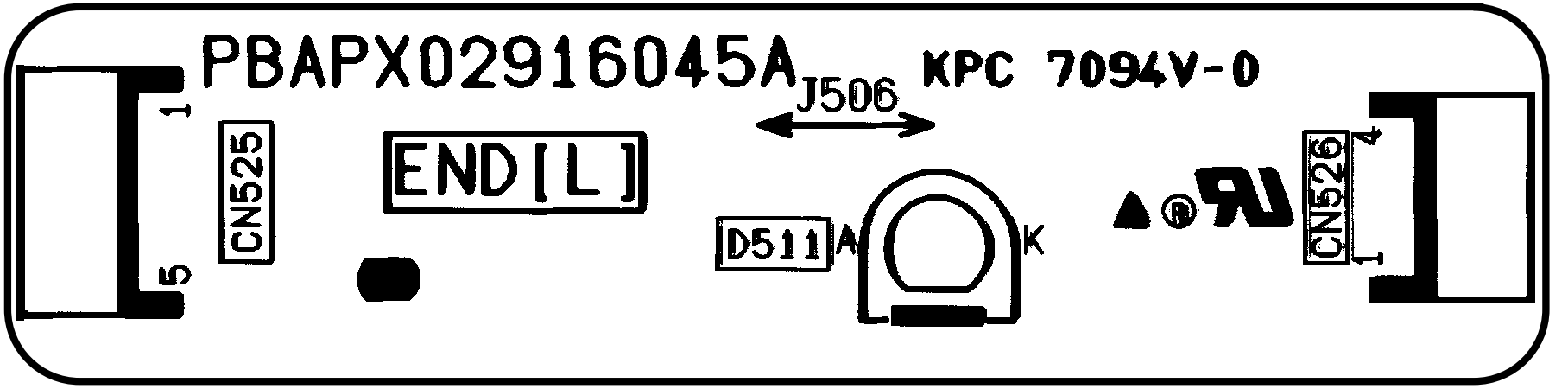
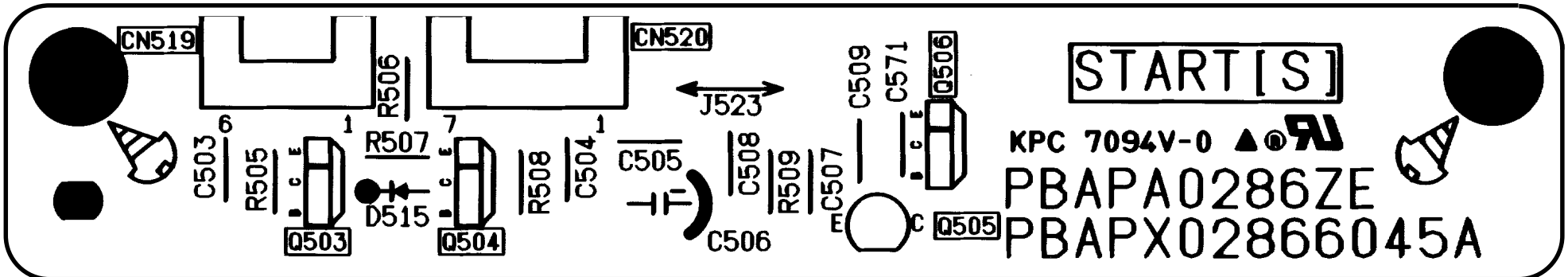
R482
R483
D331
D332
D381
L381
Z341
Z351
Z361
Z371
Z381
Z382


CN331
128A-040P2B-L14A
IC371
M62353P
IC391
TC74HC273P
IC392
TC74HC273P
IC393
TC74HC273P
IC341
SLA7044MLF872
IC351
SLA7044MLF872
IC361
SLA7044MLF872
IC381
NJM2360AD
LD[0-7]
[CONVEYOR]
[FEED]
[CARRIAGE]
[Front]
[Back]
CN341
S06B-XASK-1
CN351
S07B-XASK-1
CN361
S08B-XASK-1
CN371
S04B-XASK-1
CN372
S05B-XASK-1
CN332
S4P-VH
TSL1112S-471KR72
Q331 2SC3311A-(TA)
Q332 2SC3311A-(TA)
Q373 2SC3311A-(TA)
Q374 2SC3311A-(TA)
Q375 N.M.
Q376 N.M.
Q377 2SB1417-P
Q378 2SB1417-P
Q381 2SD2137-P
Q391 UN4213-(TA)
Q392 UN4221-(TA)
Q393 UN4221-(TA)
Q394 UN4221-(TA)
Q342 DTB113ZSTP
Q352 DTB113ZSTP
Q362 DTB113ZSTP
D331 HZS18-1TD
D332 HZS18-1TD
D381 ERA91-02AVRB
L381 470μ
Z382 RXE020-AP
MF-R020-AP
(Drive Board)
KV-S6055/S6050
1/1


PBAPX02916045A
J506
KPC 7094V-0
1
5
CN525
END[L]
D511
A
K
CN526
4
1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KPC 7094V-0
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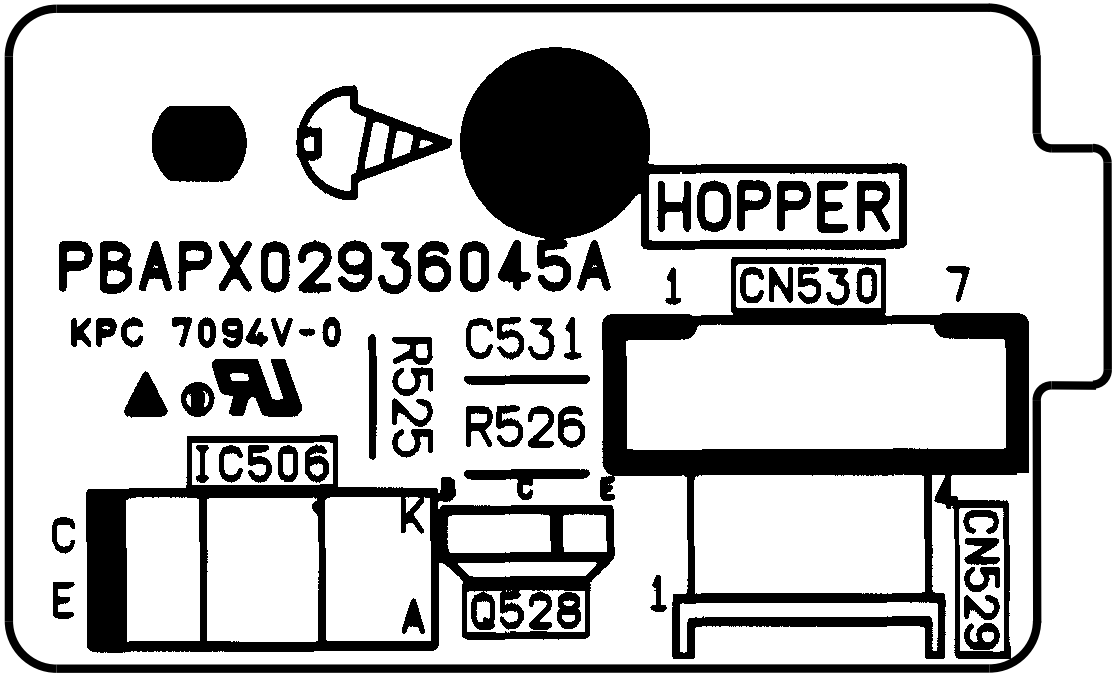
PBAPX02866045A


HOPPER
PBAPX02936045A
KPC 7094V-0
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Q528
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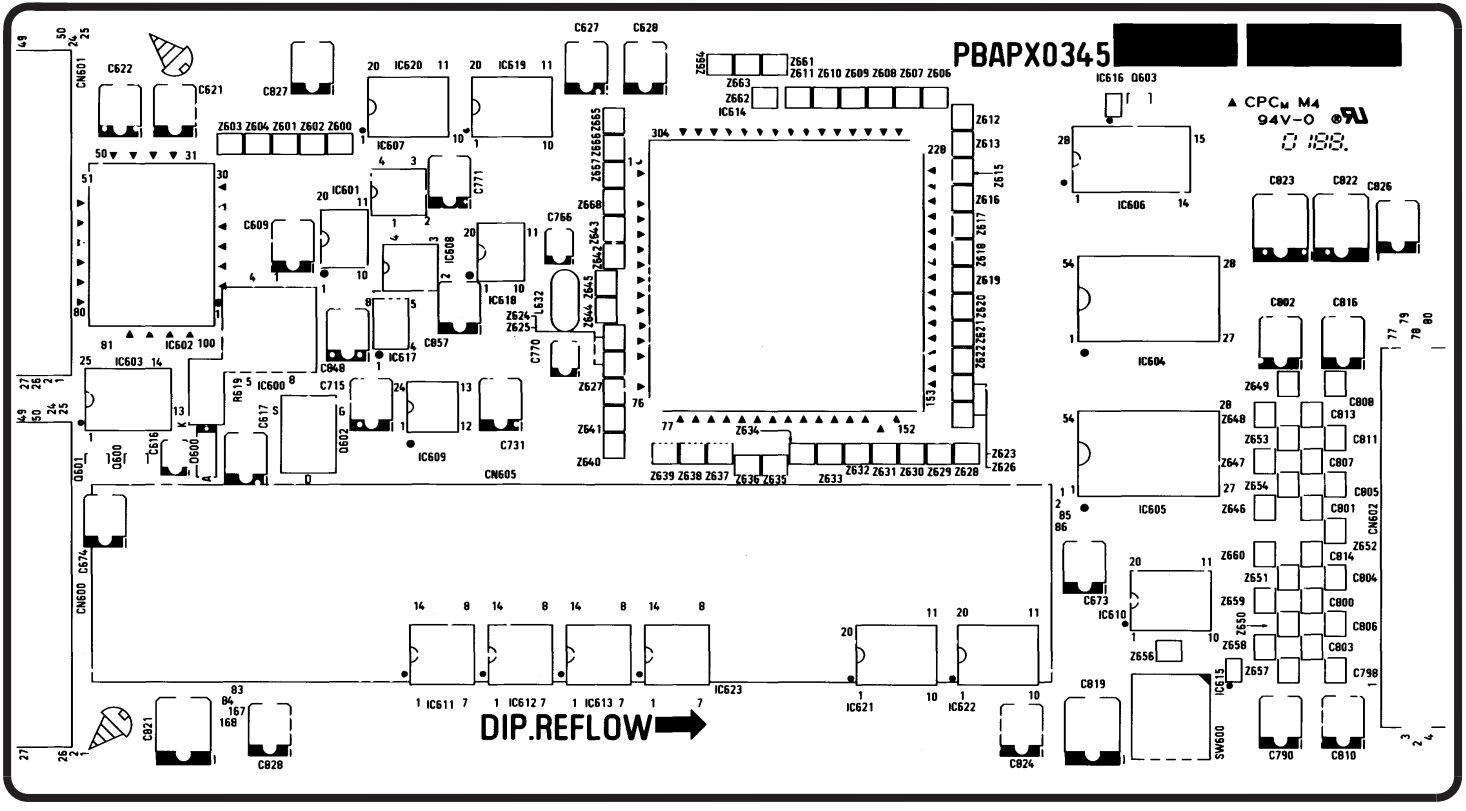
CN529


PBAPX0345
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[redacted]
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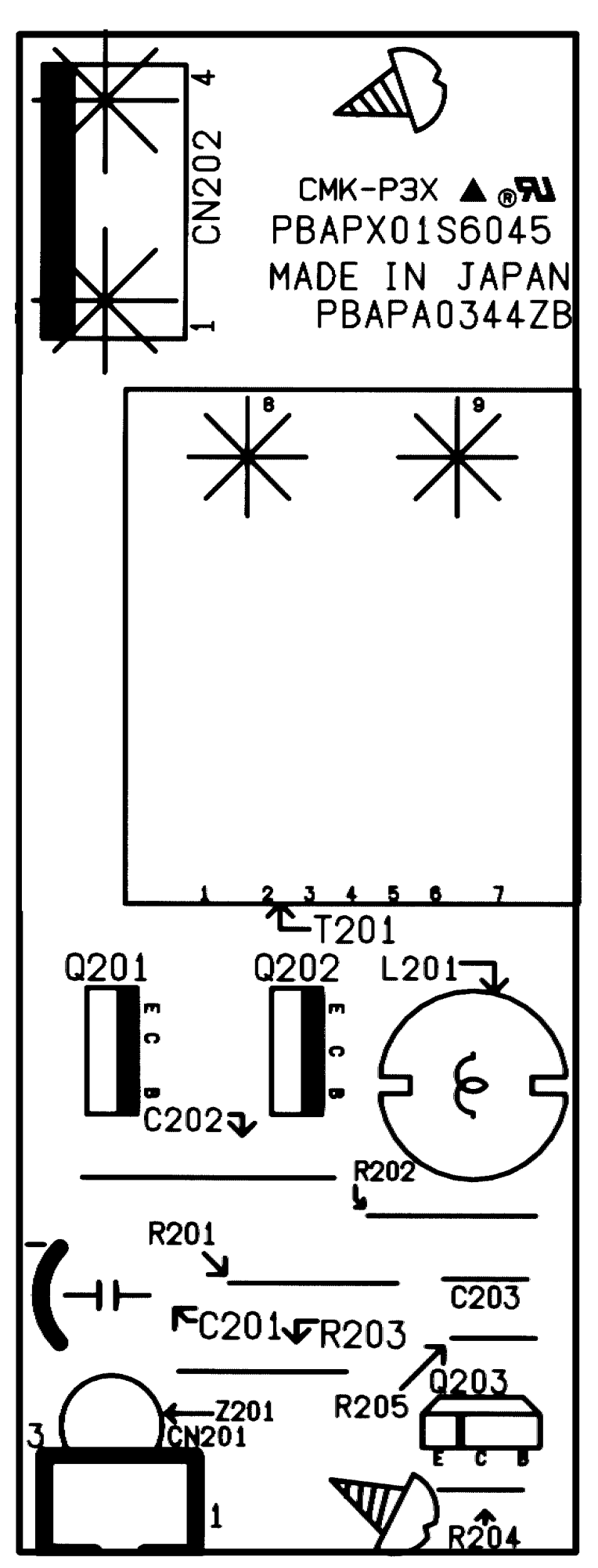
•PBAPA0345ZC
REFLOW


CN202
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CMK-P3X
PBAPX01S6045
MADE IN JAPAN
PBAPA0344ZB
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T201
Q201
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L201
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Z201
CN201
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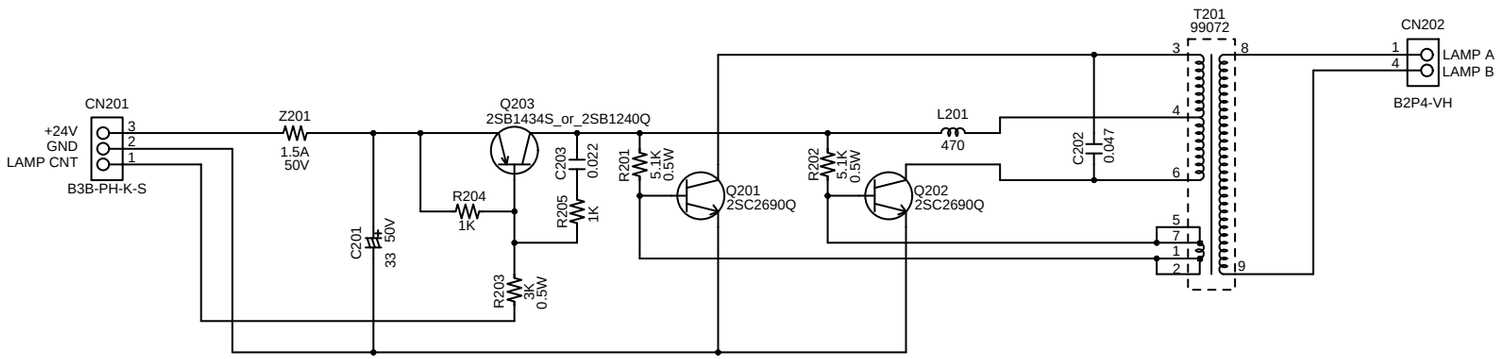
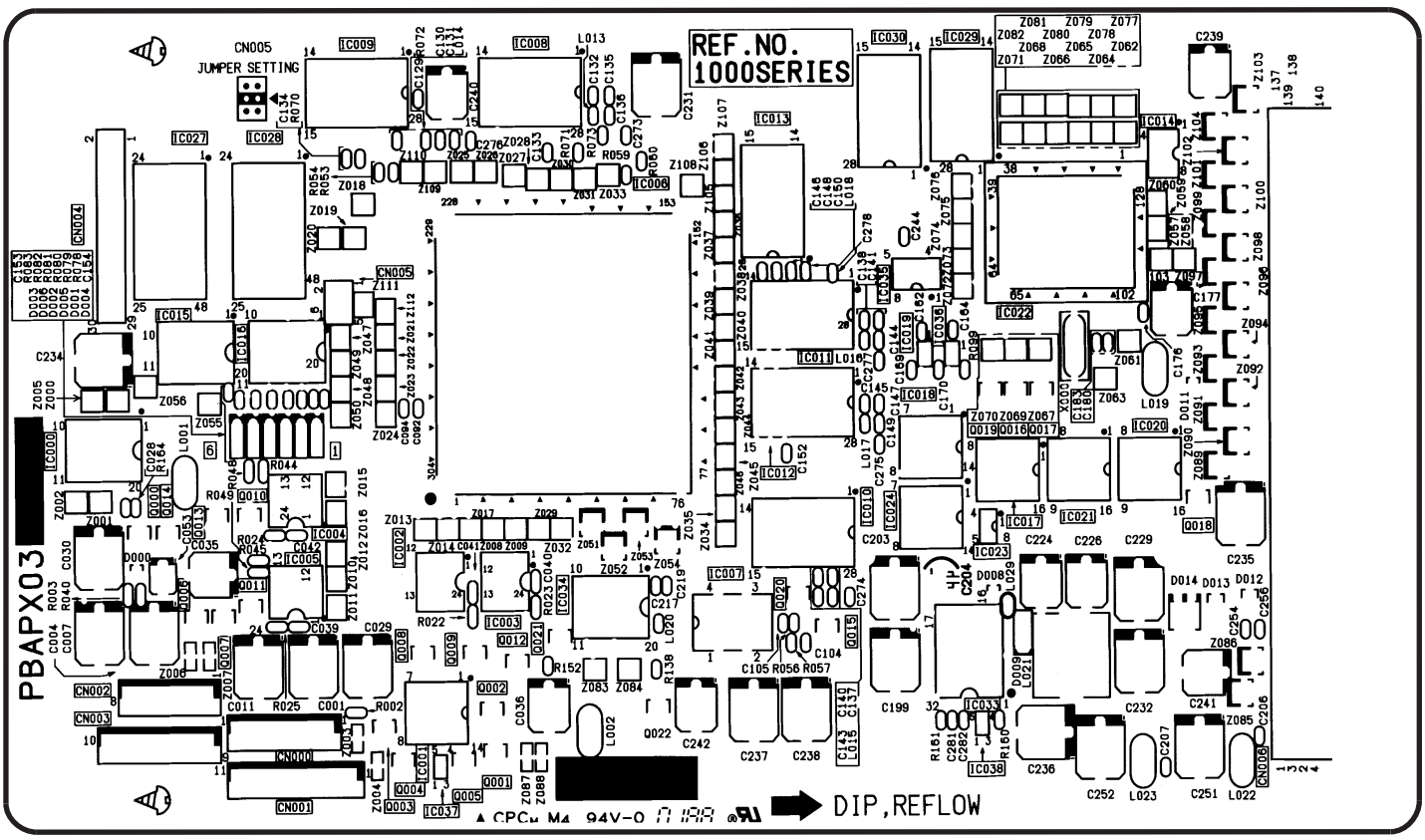
R204

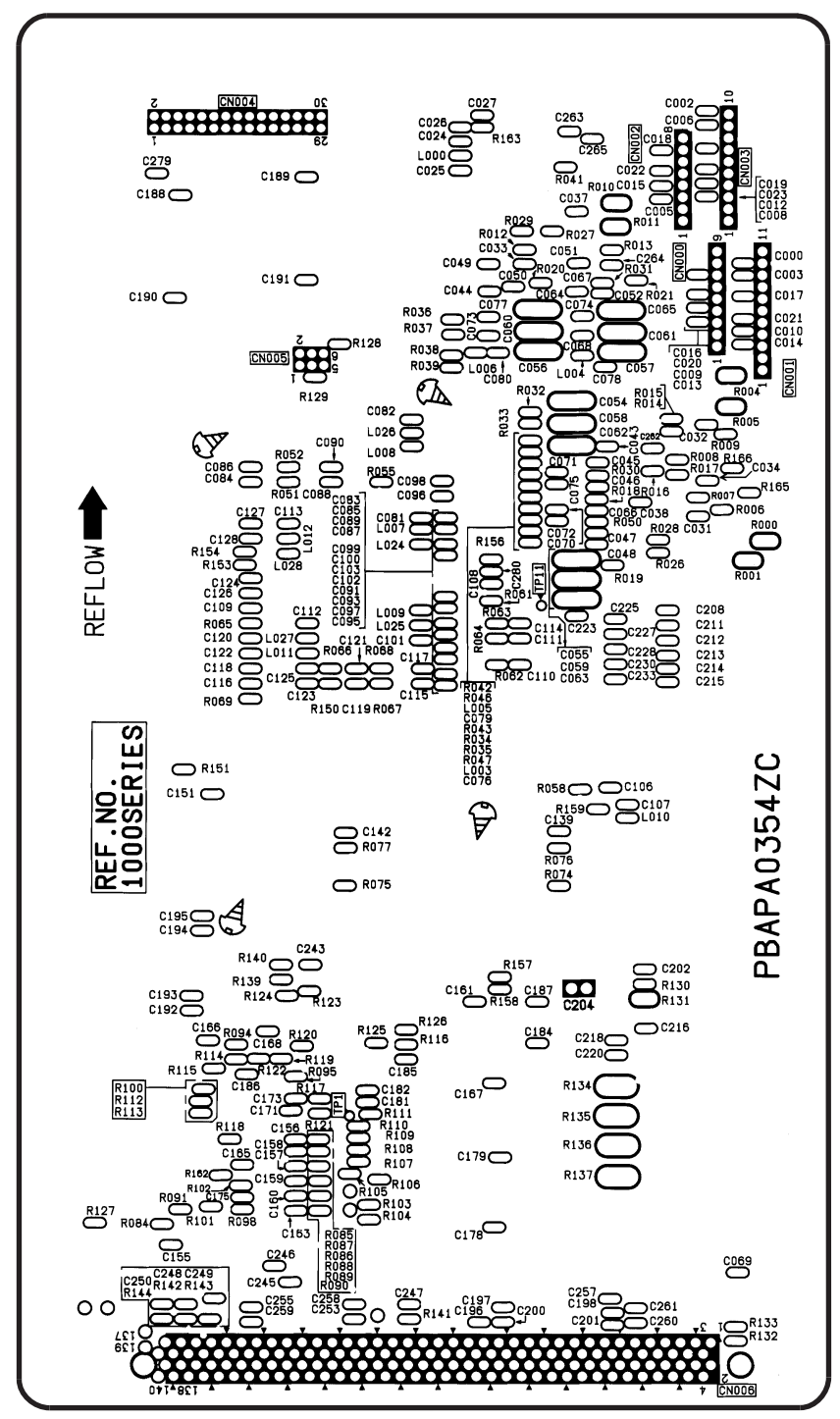


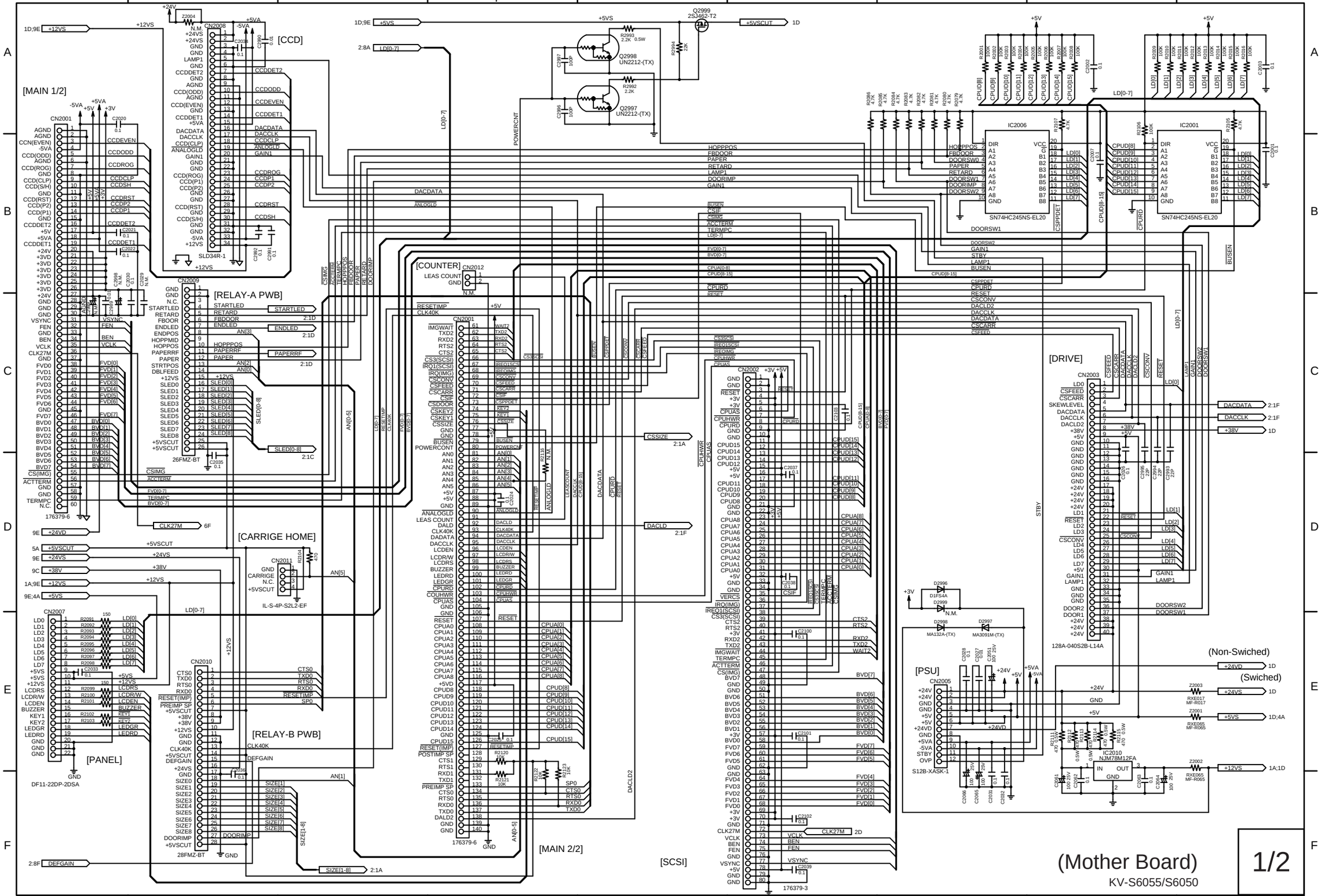
(Inverter Board)

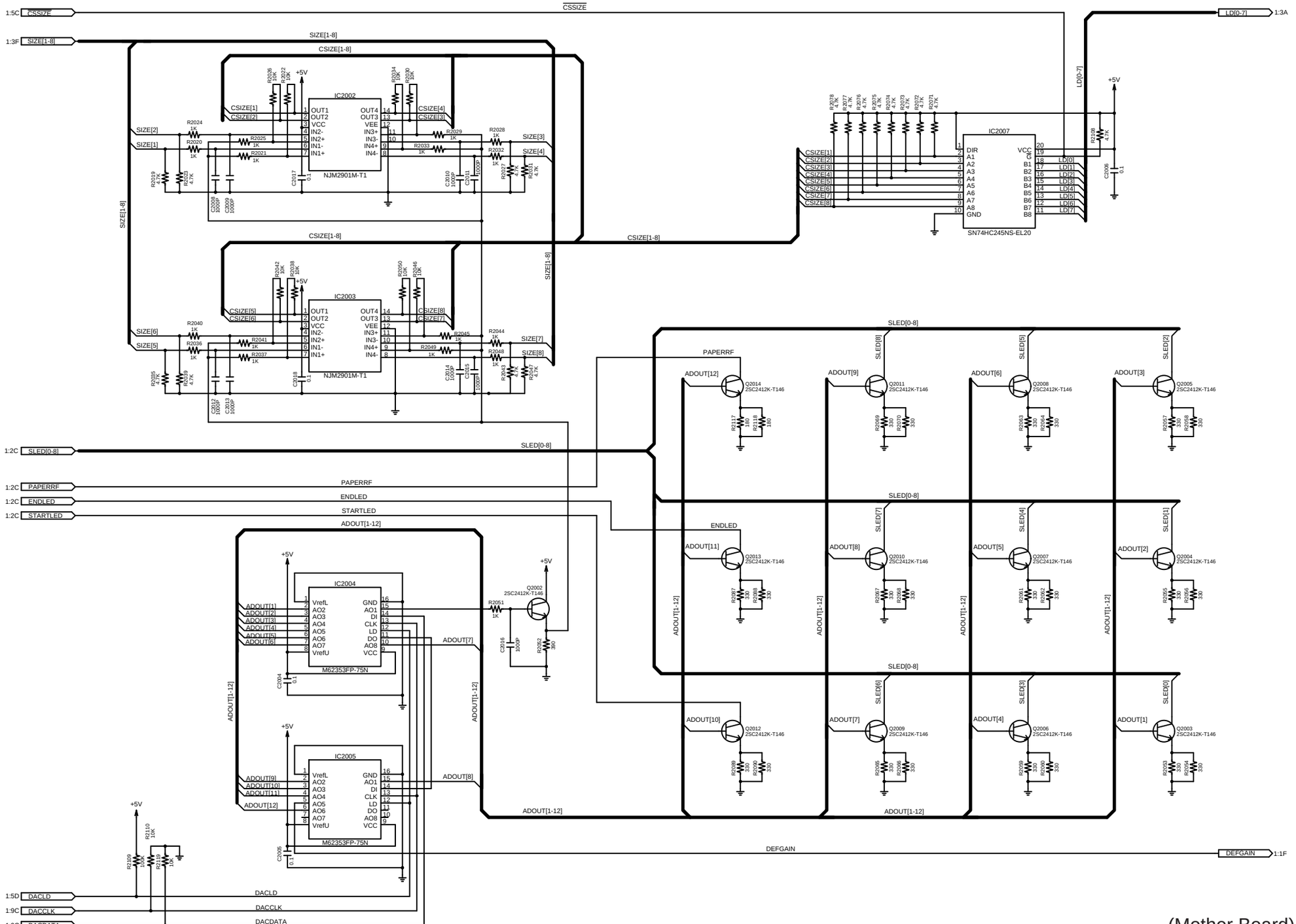
KV-S6055/S6050

1/1

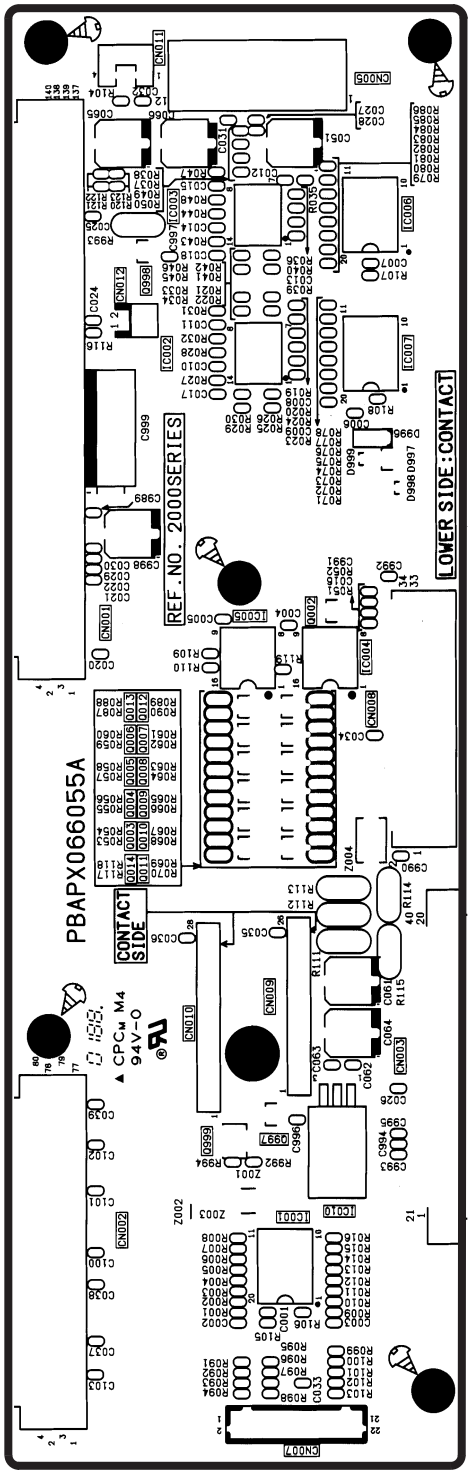

REF.NO.
1000SERIES
PBAPX03
CN005
JUMPER SETTING
DIP,REFLOW


REFLOW
REF.NO.
1000SERIES
PBAPA0354ZC
CN004
CN002
CN003
CN000
CN001
CN005
CN006
TP11
TP1
C204

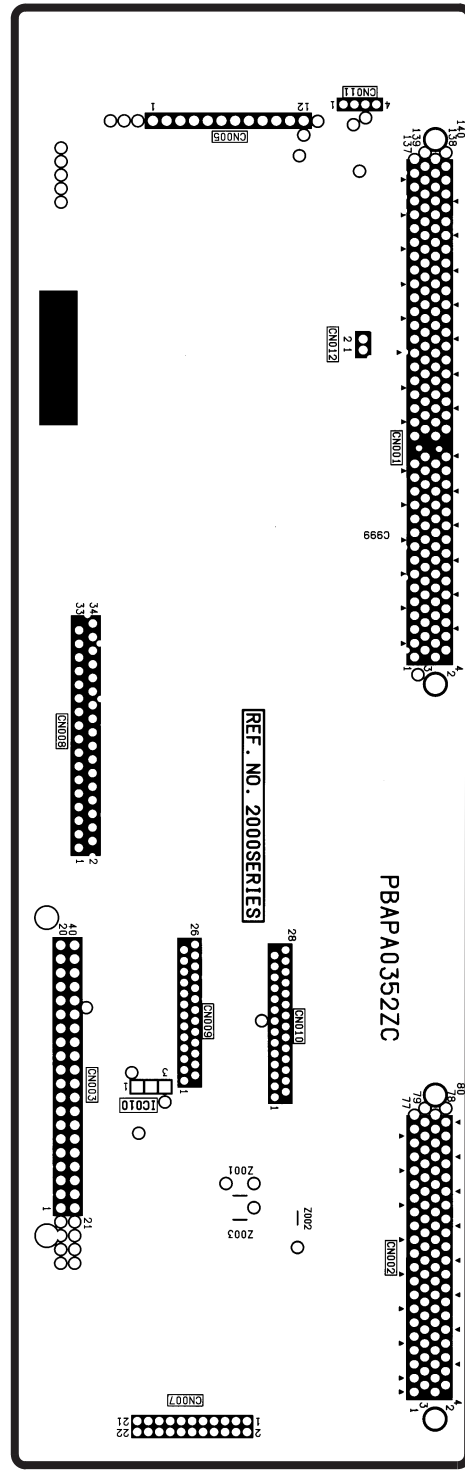

[MAIN 1/2]
[CCD]
[RELAY-A PWB]
[COUNTER]
[CARRIGE HOME]
[RELAY-B PWB]
[PANEL]
[MAIN 2/2]
[SCSI]
[DRIVE]
[PSU]
(Non-Swiched)
(Swiched)
(Mother Board)
KV-S6055/S6050
1/2

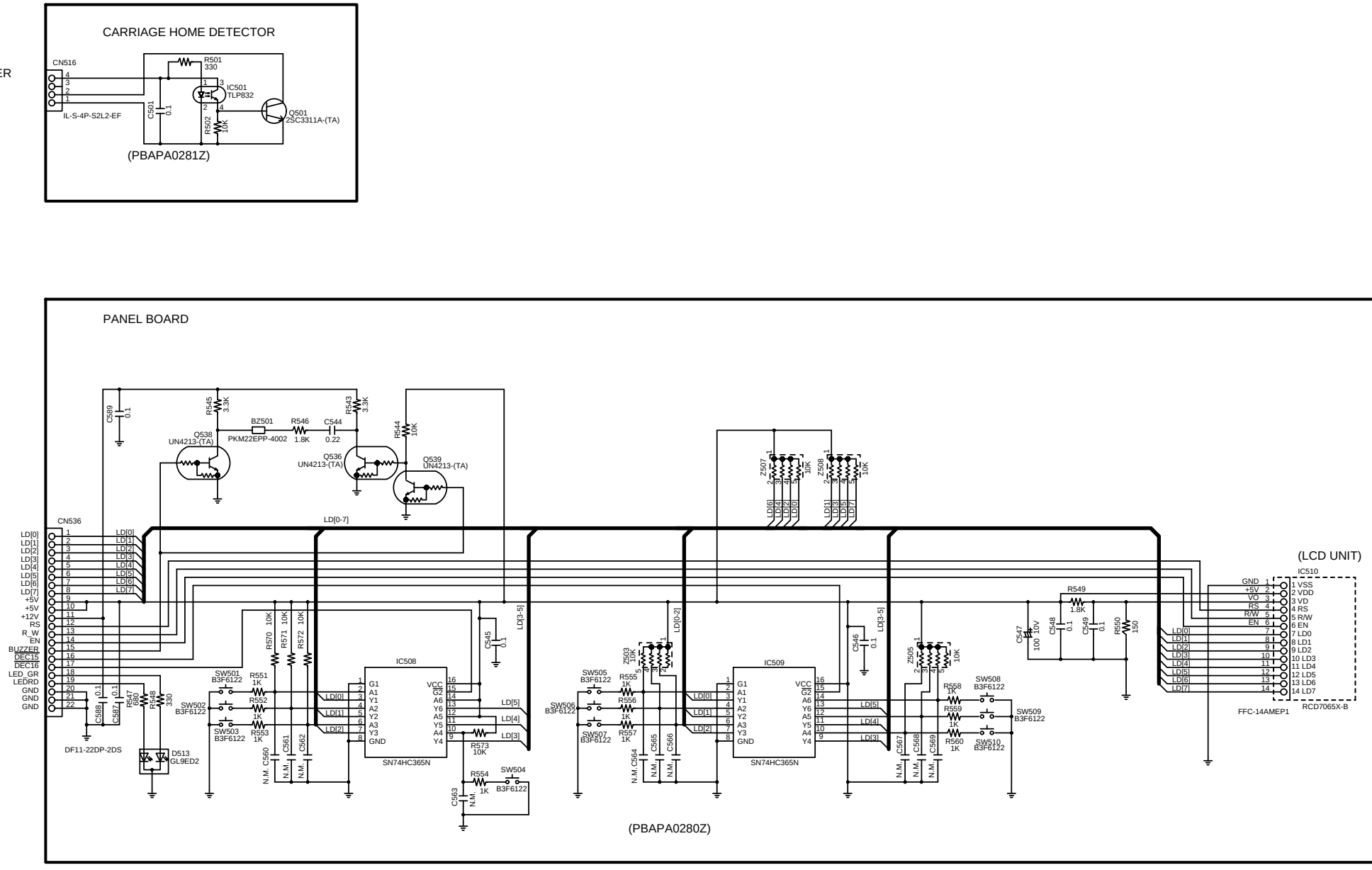

1:5C CSSIZE
CSSIZE
LD[0-7]
1:3A
1:3F SIZE[1-8]
SIZE[1-8]
CSIZE[1-8]
IC2002
NJM2901M-T1
IC2003
NJM2901M-T1
IC2007
SN74HC245NS-EL20
1:2C SLED[0-8]
SLED[0-8]
1:2C PAPERRF
PAPERRF
1:2C ENDLED
ENDLED
1:2C STARTLED
STARTLED
ADOUT[1-12]
IC2004
M62353FP-75N
IC2005
M62353FP-75N
ADOUT[7]
ADOUT[8]
DEFGAIN
1:1F DEFGAIN
1:5D DACLD
DACLD
1:9C DACCLK
DACCLK
1:9C DACDATA
DACDATA
(Mother Board)
KV-S6055/S6050
2/2

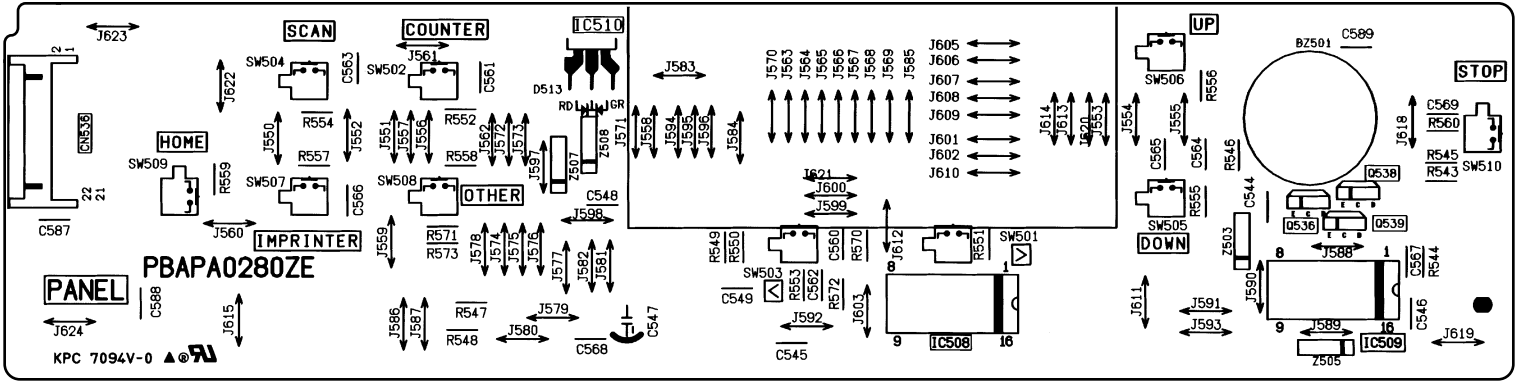
(Component Side)



(Solder Side)




CARRIAGE HOME DETECTOR
TO MOTHER
CN516
IL-S-4P-S2L2-EF
R501 330
IC501 TLP832
Q501 2SC3311A-(TA)
C501 0.1
R502 10K
(PBAPA0281Z)
PANEL BOARD
TO MOTHER
CN536
DF11-22DP-2DS
Q538 UN4213-(TA)
Q536 UN4213-(TA)
Q539 UN4213-(TA)
BZ501 PKM22EPP-4002
R545 3.3K
R543 3.3K
R546 1.8K
C544 0.22
R544 10K
C589 0.1
LD[0-7]
LD[0-2]
LD[3-5]
IC508
IC509
SN74HC365N
SW501 B3F6122
SW502 B3F6122
SW503 B3F6122
SW504 B3F6122
SW505 B3F6122
SW506 B3F6122
SW507 B3F6122
SW508 B3F6122
SW509 B3F6122
SW510 B3F6122
D513 GL9ED2
R549 1.8K
(LCD UNIT)
IC510
FFC-14AMEP1
RCD7065X-B
(PBAPA0280Z)
(Panel & Carriage Home Detector Boards)
KV-S6055/S6050
1/1


PBAPA0280ZE
KPC 7094V-0
PANEL
SCAN
COUNTER
IC510
HOME
IMPRINTER
OTHER
UP
DOWN
STOP
IC508
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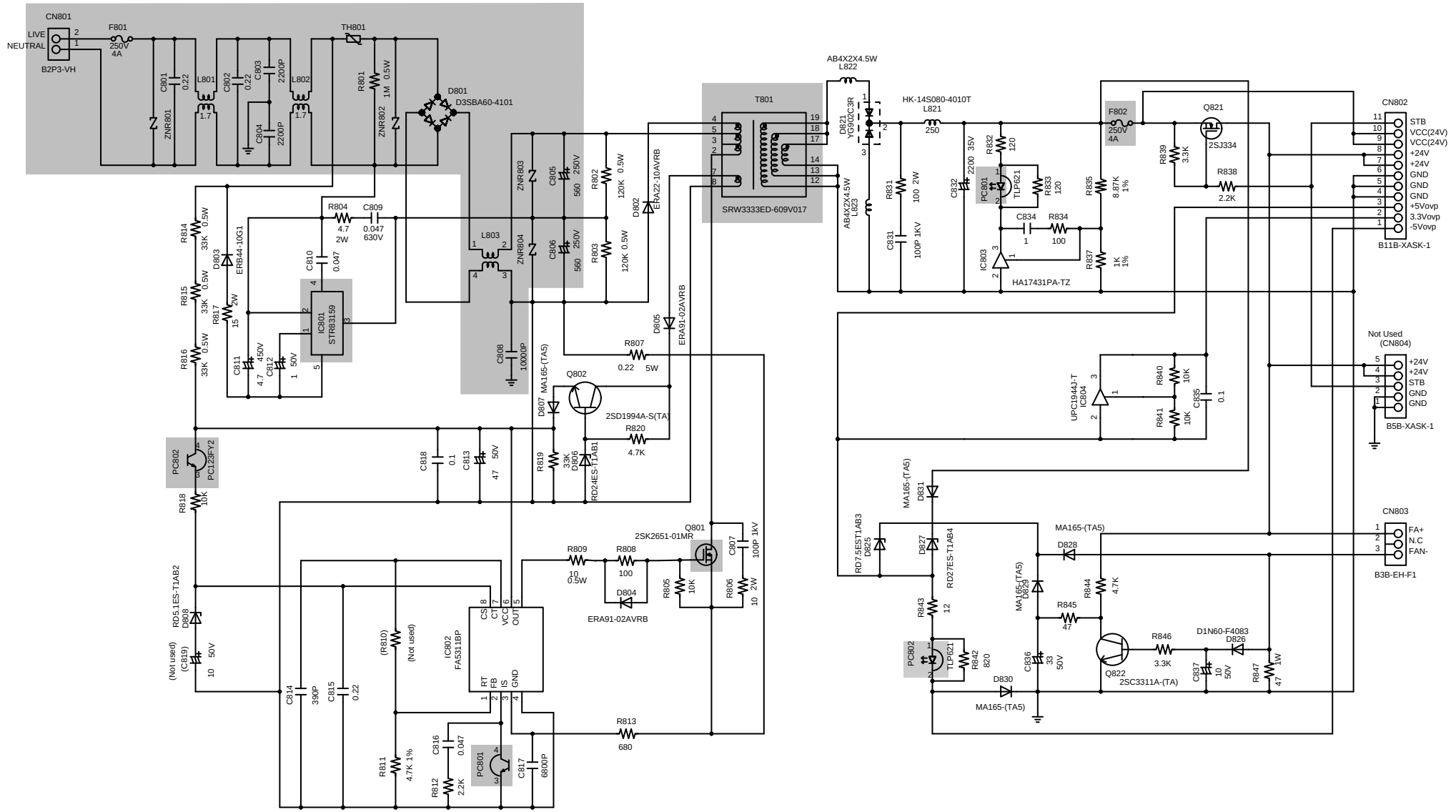
R1000



(Power Board)

KV-S2065/S6055/S6050

1/1

PBAPA0356ZA
KPC 6294V-0
CAUTION
FOR CONTINUED PROTECTION AGAINST RISK OF FIRE REPLACE ONLY WITH THE SAME TYPE AND RATINGS OF FUSE.
T4AH 250V
PBAPX012065
CN801
F801
ZNR801
C801
L801
C802
L802
C803
C804
C805
C806
C807
C808
C809
C810
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Q821
IC801
IC802
IC803
IC804
PC801
PC802
T801
TH801
ZNR802
ZNR803
ZNR804
J811
J812
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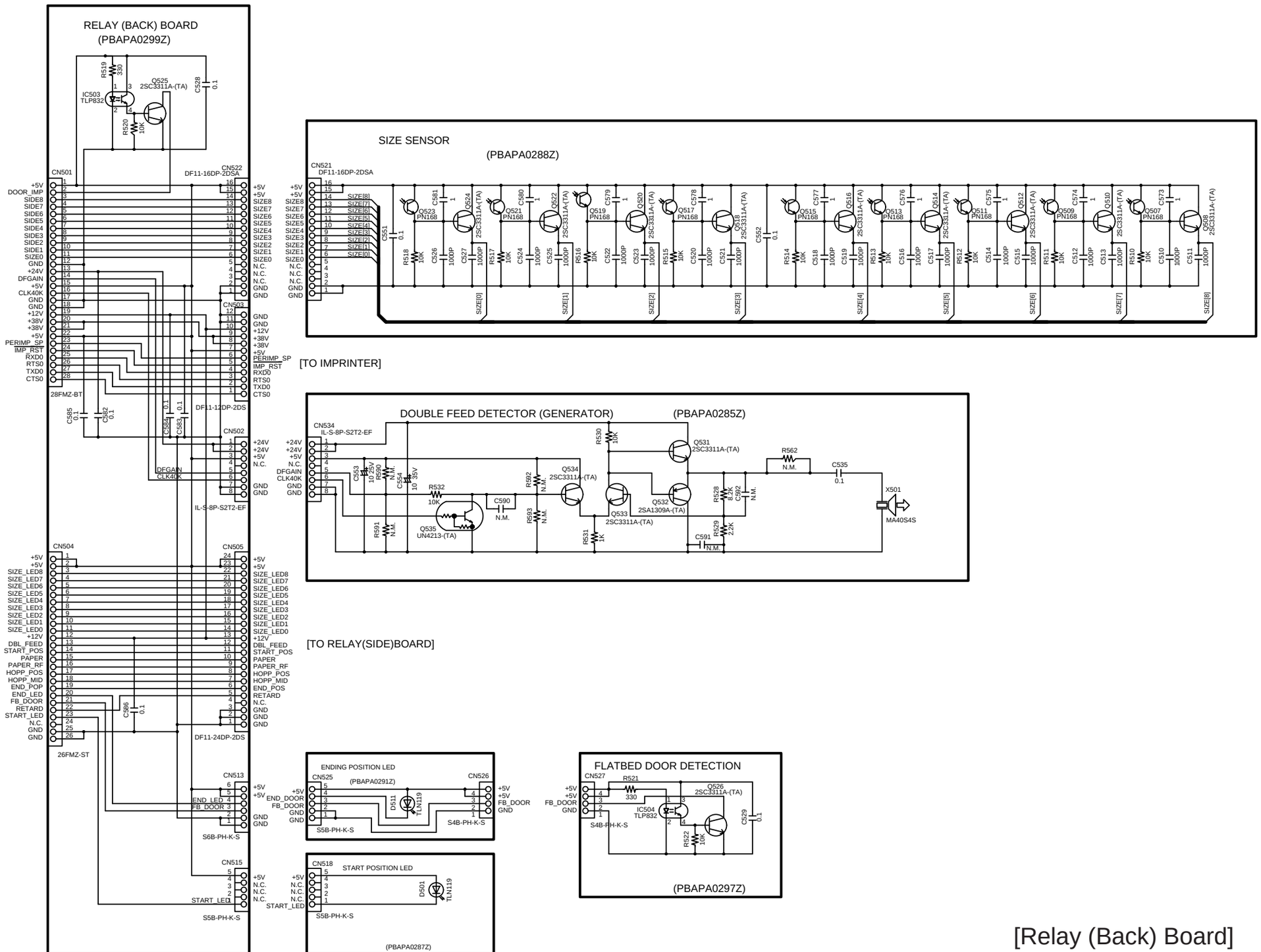
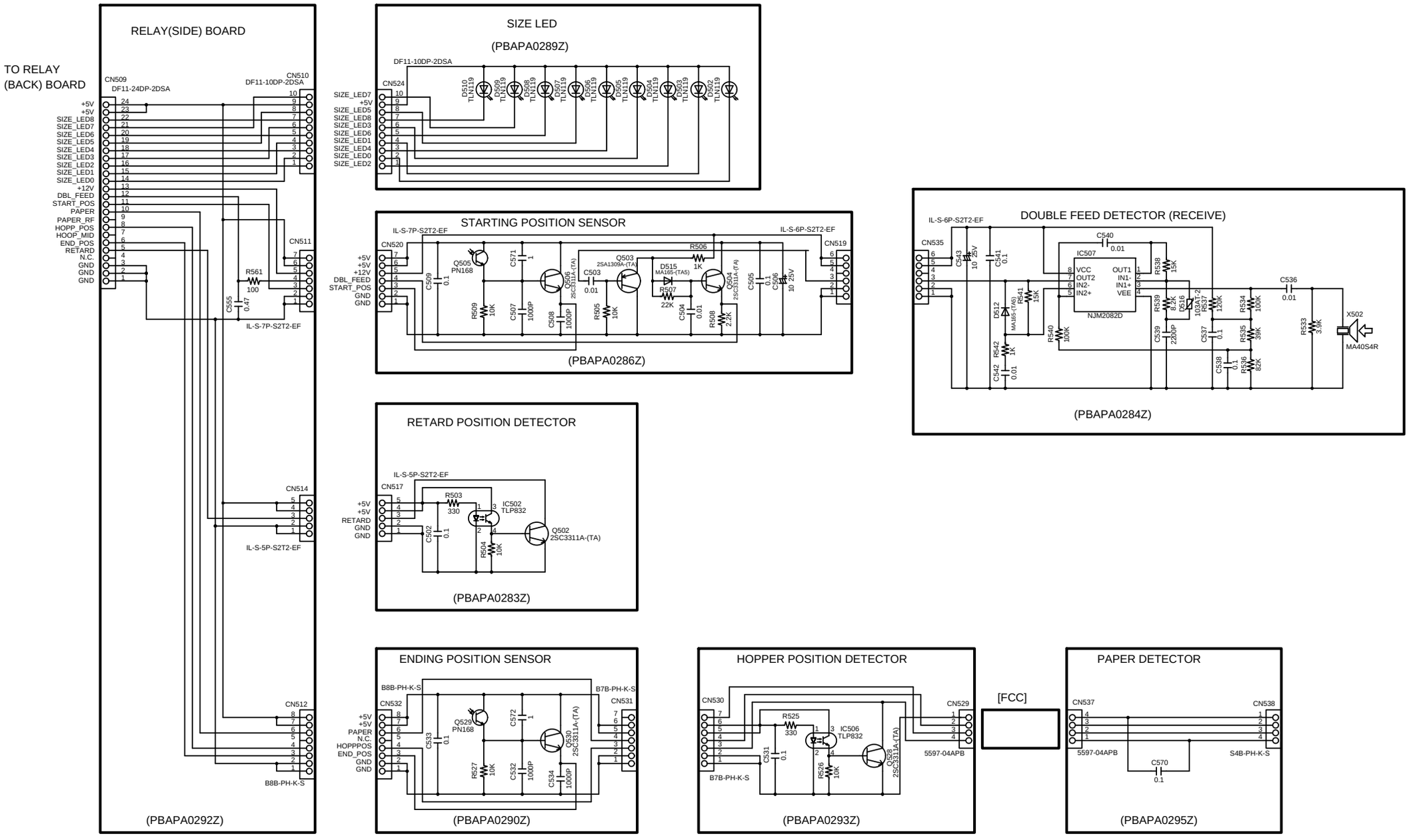
CN803
6055/2065
2065
6055

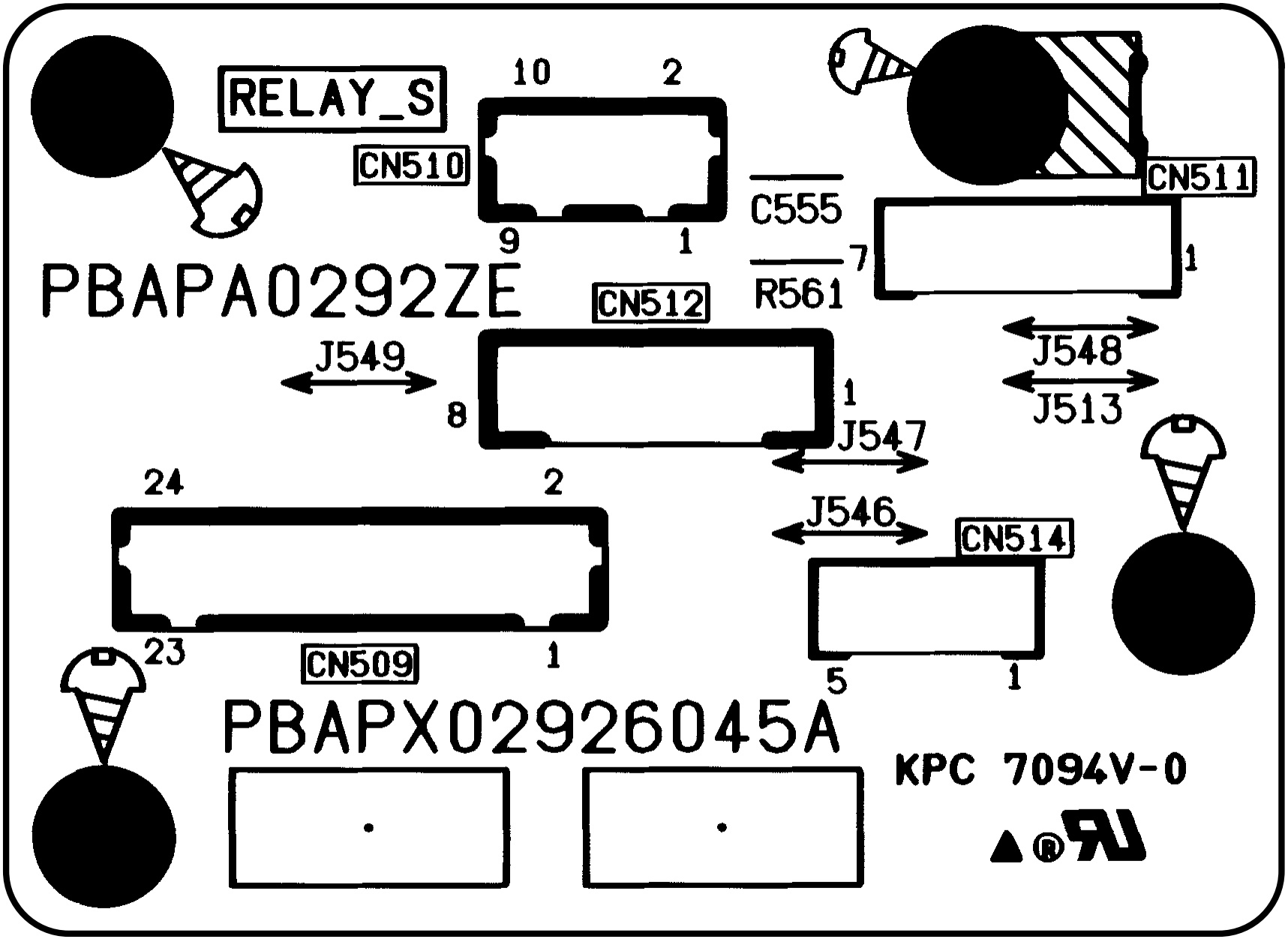

RELAY (BACK) BOARD
(PBAPA0299Z)
SIZE SENSOR
(PBAPA0288Z)
[TO IMPRINTER]
DOUBLE FEED DETECTOR (GENERATOR)
(PBAPA0285Z)
[TO RELAY(SIDE)BOARD]
ENDING POSITION LED
(PBAPA0291Z)
FLATBED DOOR DETECTION
(PBAPA0297Z)
START POSITION LED
(PBAPA0287Z)
CN501
CN502
CN503
CN504
CN505
CN513
CN515
CN521
CN522
CN525
CN526
CN527
CN534
CN518
28FMZ-BT
26FMZ-ST
IL-S-8P-S2T2-EF
S6B-PH-K-S
S5B-PH-K-S
S4B-PH-K-S
DF11-16DP-2DSA
DF11-12DP-2DS
DF11-24DP-2DS
[Relay (Back) Board]
KV-S6055/S6050
1/1



[Relay (Side) Board]

KV-S6055/S6050

1/1


RELAY_S
10
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CN510
9
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C555
R561
CN511
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PBAPA0292ZE
CN512
J549
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J548
J513
J547
24
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J546
CN514
23
CN509
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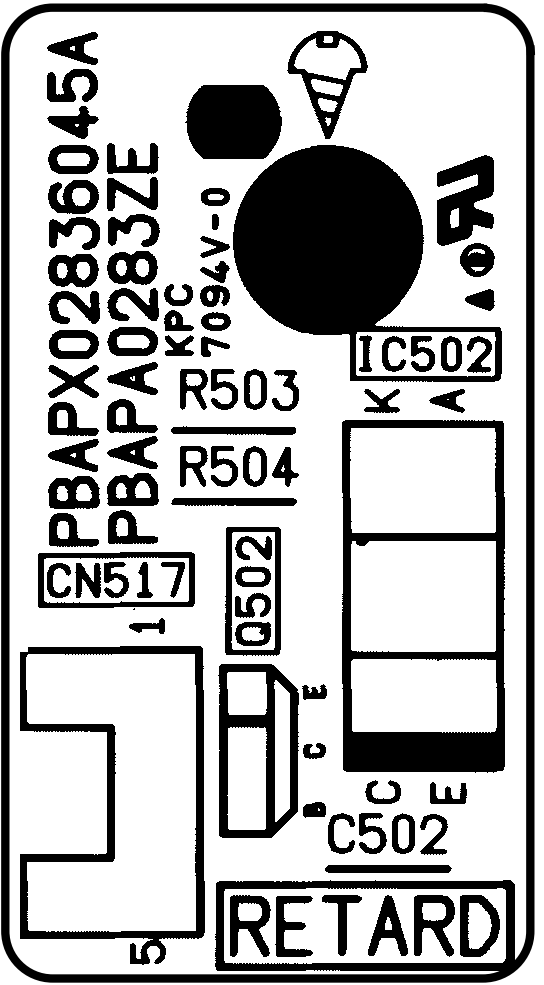
PBAPX02926045A
KPC 7094V-0


PBAPX0283604 5A
PBAPA0283ZE
KPC
7094V-0
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IC502
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CN517
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Q502
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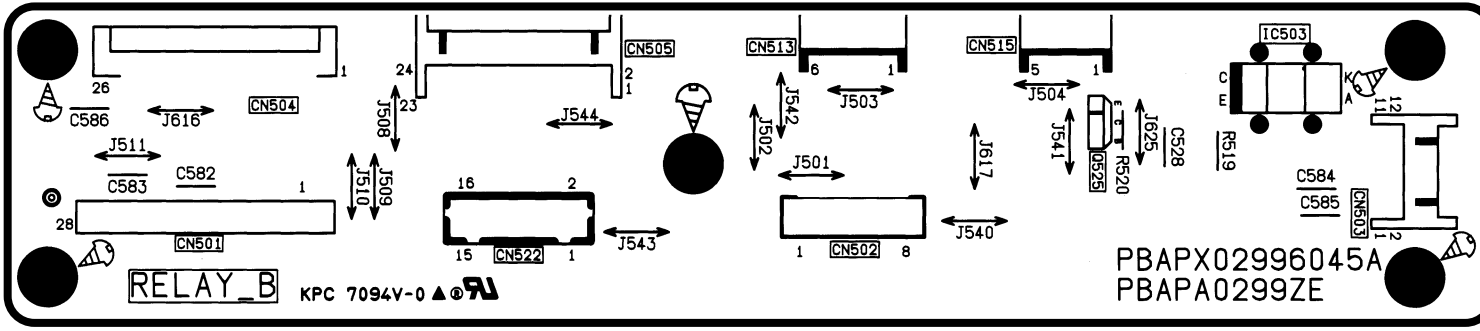
C502
RETARD


CN504
26
1
C586
J616
J511
C583
C582
CN501
28
1
RELAY_B
KPC 7094V-0
CN505
24
23
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J508
J509
J510
J544
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CN522
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J543
CN513
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J503
J542
J502
J501
CN502
1
8
J540
CN515
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1
J504
J617
J541
Q525
R520
J625
C528
IC503
C
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R519
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C584
C585
CN503
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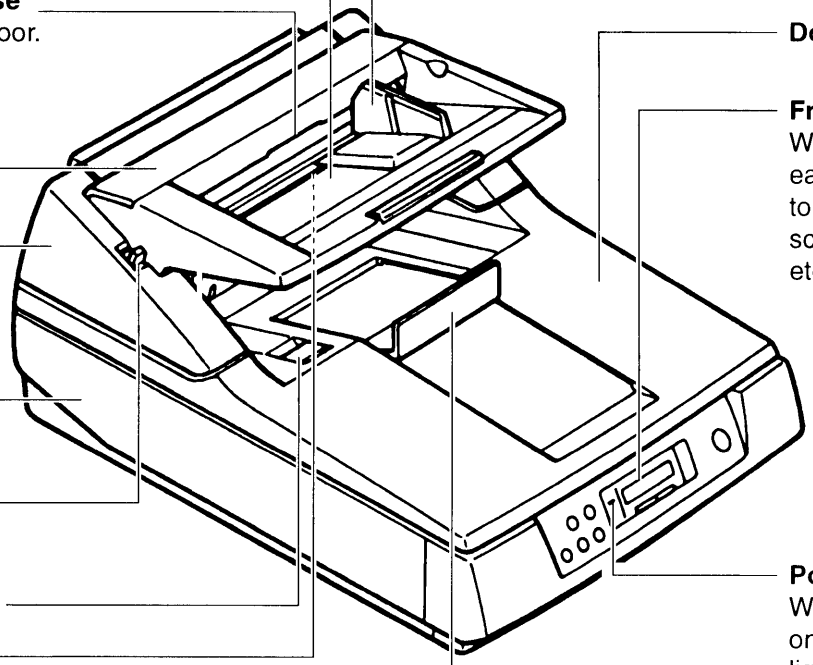
PBAPX02996045A
PBAPA0299ZE



Hopper

ADF door release
Inside the ADF door.

ADF door

ADF Side Panel L

Side Panel L

Manual feed selector

Exit substopper

Front door

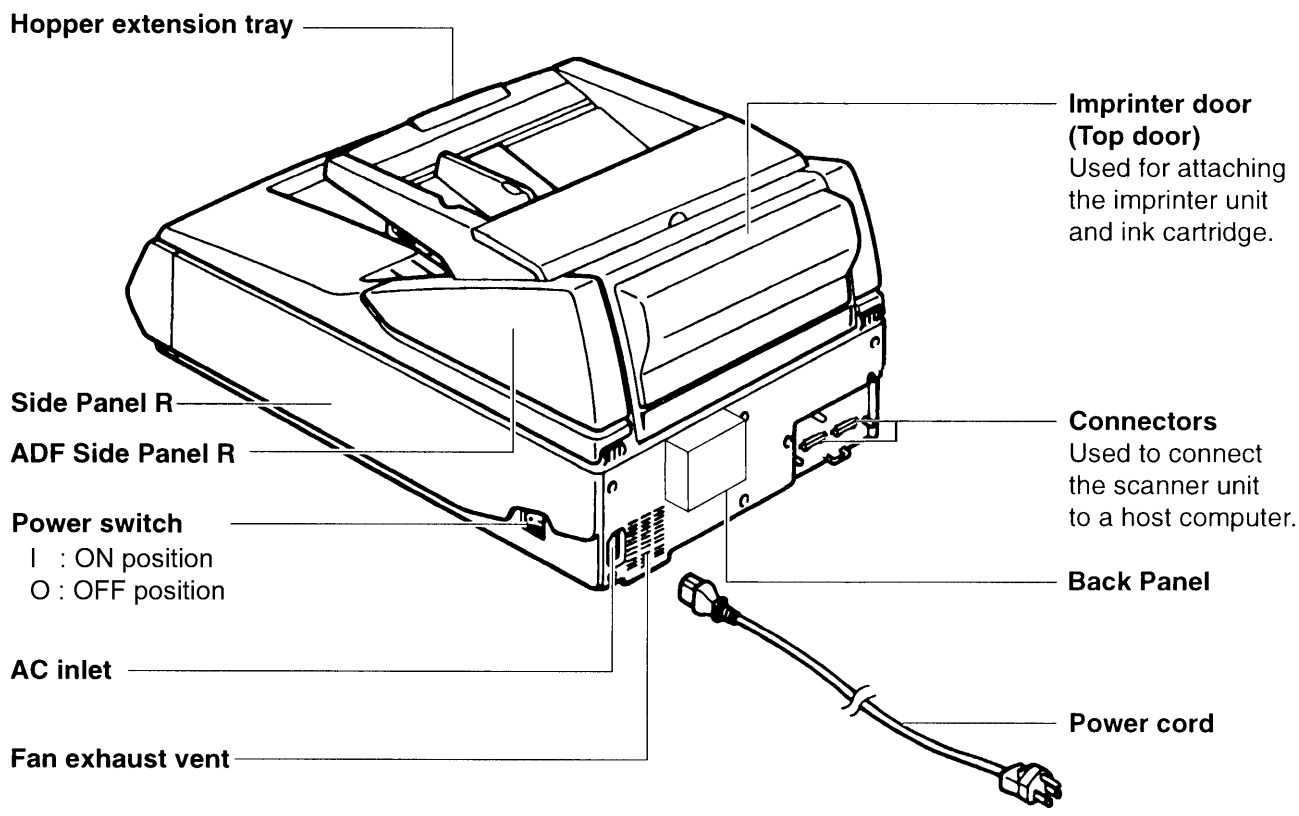
Exit document stopper

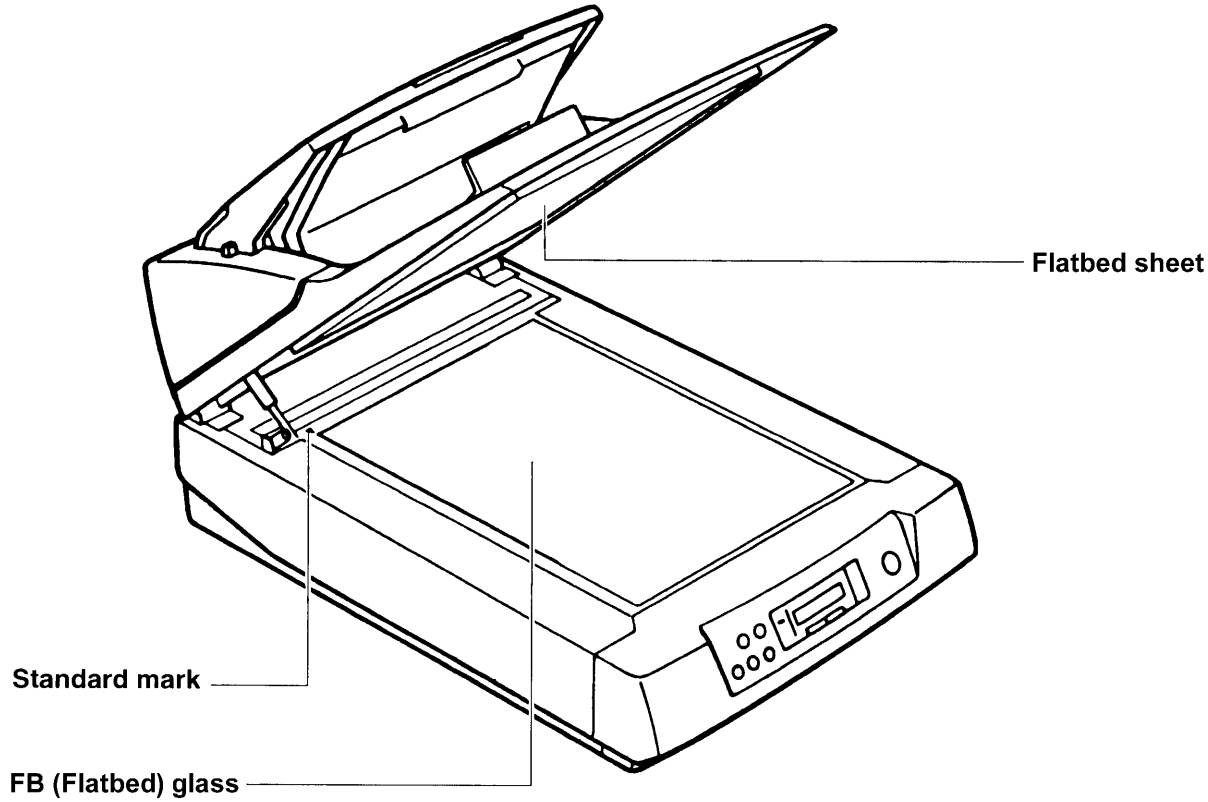
Document guide

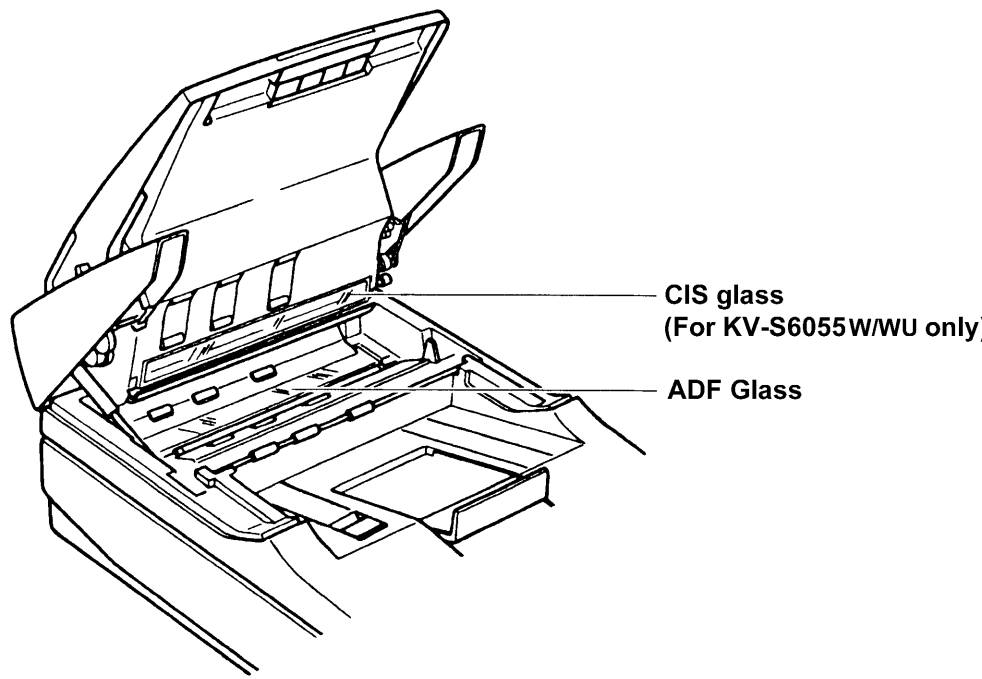
Document cover

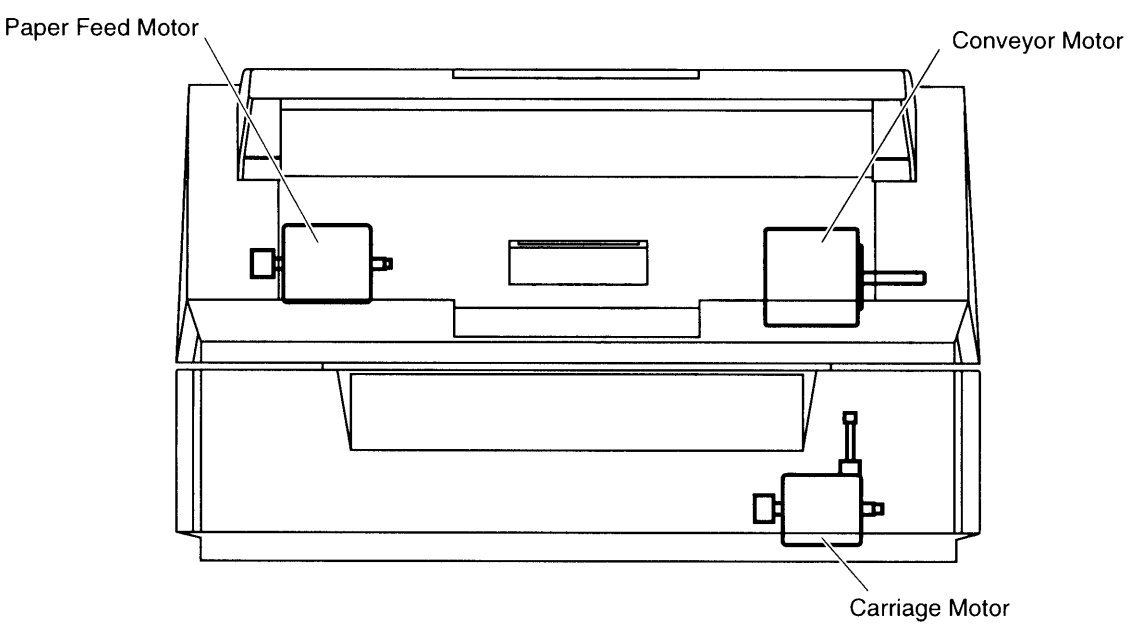
Front Panel
When performing each setting, used to display the scanning conditions, etc.

Power indicator
When the power is turned on, the green indicator lights. When an error occurs, the indicator will change to red, and light steadily or flash. (When the unit goes to sleep mode, the indicator will flash in orange.)


Hopper extension tray
Imprinter door
(Top door)
Used for attaching
the imprinter unit
and ink cartridge.
Side Panel R
ADF Side Panel R
Connectors
Used to connect
the scanner unit
to a host computer.
Power switch
I : ON position
O : OFF position
Back Panel
AC inlet
Power cord
Fan exhaust vent


Flatbed sheet
Standard mark
FB (Flatbed) glass


CIS glass
(For KV-S6055W/WU only)
ADF Glass


Paper Feed Motor
Conveyor Motor
Carriage Motor